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1953 - 1954

BULLETIN OF

HUMBOLDT STATE COLLEGE



HUMBOLDT STATE COLLEGE BULLETIN, 1953-1954

Addendum to page 17

Any student who has a bona fide reason for securing a limited meal ticket (five day week) may request permission for this adjustment under the general policies of the College. Request forms are available through the office of the Dean of Students.



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AUG 28 1953
UNIVERSITY OF ILLINOIS

BULLETIN
FOR THE YEAR 1953-1954
HUMBOLDT STATE COLLEGE
ARCATA, CALIFORNIA

A FIVE-YEAR COLLEGE

ACCREDITED BY THE WESTERN COLLEGES ASSOCIATION, THE UNIVERSITY OF
CALIFORNIA, AND THE STATE DEPARTMENT OF EDUCATION

STATE COLLEGES OF CALIFORNIA

California Polytechnic College.....	San Luis Obispo
Chico State College.....	Chico
Fresno State College	Fresno
Humboldt State College.....	Arcata
Los Angeles State College of Applied Arts and Sciences	Los Angeles
Long Beach State College.....	Long Beach
Sacramento State College.....	Sacramento
San Diego State College.....	San Diego
San Francisco State College.....	San Francisco
San Jose State College.....	San Jose

TABLE OF CONTENTS

TABLE OF CONTENTS

PREFACE

1900-1901

1901-1902

NOTE TO CONTRIBUTORS

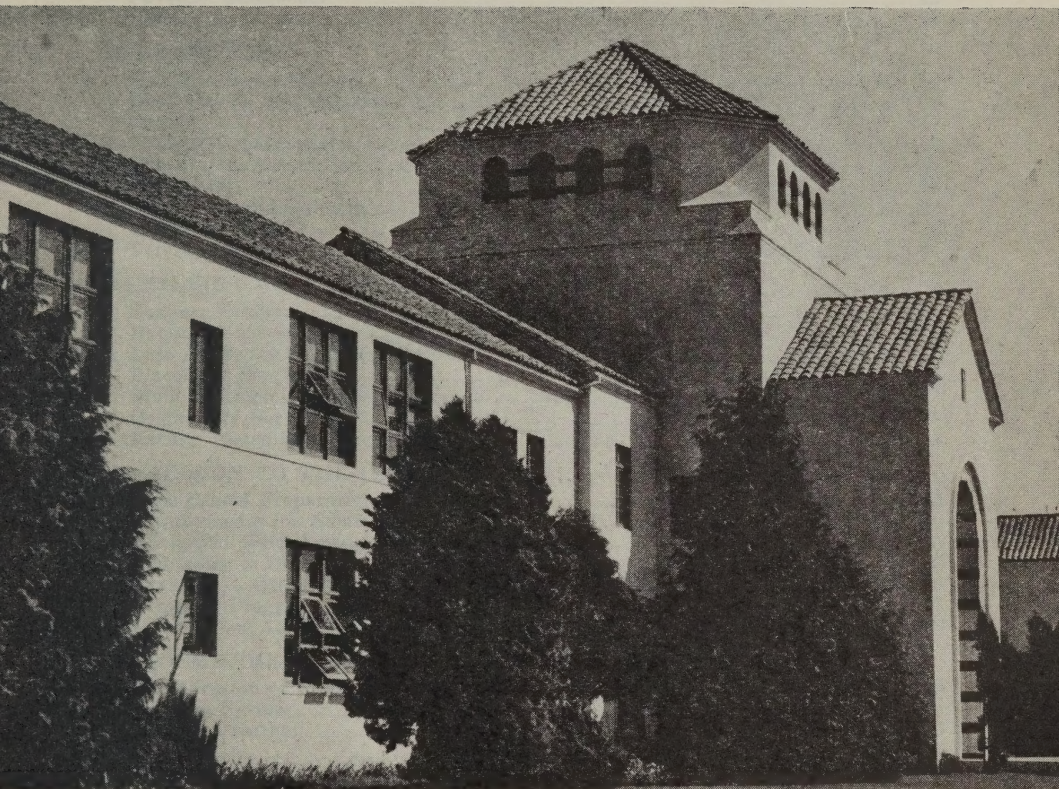
A Word About the Editor

A Word About the Editor

THE EDITOR

1900-1901

1901-1902



ADMINISTRATION BUILDING

TABLE OF CONTENTS

	Page
TABLE OF CONTENTS	5
CALENDAR	
1953-1954	7
Academic	8
NOTE TO PROSPECTIVE STUDENTS	
A Word About the College	10
A Word About This Catalog	10
THE COLLEGE	
Location	12
Physical Equipment	12
History	14
STUDENT LIFE	
Living Accommodations	16
Reservations and Deposits	16
Board	17
Student Organizations	18
The Alumni Association	18
Social Life	19
Counseling and Guidance	20
Health Service	20
Veterans' Service	21
AUXILIARY COLLEGE SERVICES	
Summer Session	22
Extension Program	22
Late Afternoon and Evening Classes	22
Placement Service	22
Student Employment Service	23
Community Service	23
Faculty Consultant Service	23
ADMISSION TO THE COLLEGE	
High School Preparation	24
Requirements for Admission	25
Admission With Advanced Standing	25
Admission to the Graduate Division	26
Transfer to Other Institutions	26
Remedial Program	27
Information About Deferment and Selective Service	28
ACADEMIC REGULATIONS	
Classification of Students	29
Marking System	29
Normal Program	30
Attendance	31
Auditors	31
Withdrawal From College	31
Reports to Students	32
Credit by Extension or Correspondence	32
Probation and Disqualification	32
FEEES AND EXPENSES	
Fees	34
Refunds	35
Estimated Expenses for Regular Students	35
HONORS, SCHOLARSHIPS AND LOANS	
Scholastic Honors	36
Honor Societies	36
Scholarships	36
Loan Funds	44

TABLE OF CONTENTS—Continued

	Page
CURRICULUMS AND DEGREES	
Instructional Divisions	46
Curriculums	46
Explanation of Course Numbers	49
Requirements for Degrees	49
 COURSES OF INSTRUCTION	
TWO-YEAR CURRICULUMS	54
Occupational Curriculums	54
General Curriculum	59
Preprofessional Curriculums	59
DIVISION OF EDUCATION AND PSYCHOLOGY	60
Credentials	60
Admission to Teacher Education Curriculums	60
General Credential Requirements	61
Course Requirements for Credential Curriculum	62
Special Secondary Credential	64
General Secondary Credential	65
Administration and Supervision Curriculums	66
Student Teaching	71
Psychology	73
DIVISION OF FINE AND APPLIED ARTS	75
Art	76
Home Economics	82
Industrial Education	86
Music	91
Speech	97
DIVISION OF HEALTH AND PHYSICAL EDUCATION	105
Physical Education	105
Health and Hygiene	114
DIVISION OF LANGUAGE AND LITERATURE	117
English	117
Journalism	122
Modern Languages	124
DIVISION OF NATURAL SCIENCES	126
Biological Sciences	133
Physical Sciences	140
Mathematics	143
DIVISION OF SOCIAL SCIENCE	145
History	153
Economics	156
Business Administration	158
Geography	163
Philosophy	163
Political Science	164
Sociology	165
GROUP MAJOR	167
DIRECTORY OF PERSONNEL	169
College Administrative Officers and Assistants	170
Division Chairmen	170
Faculty	171
College Library Staff	176
Faculty Committees	176
INDEX	177

CALENDAR

1953

JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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5	6	7	8	9	10	11	2	3	4	5	--	--	7	6	7	8	9	10	11	12
12	13	14	15	16	17	18	9	10	11	12	13	14	15	13	14	15	16	17	18	19
19	20	21	22	23	24	25	16	17	18	19	20	21	22	20	21	22	23	24	25	26
26	27	28	29	30	31	--	23	24	25	26	27	28	29	27	28	29	30	--	--	--
30	31	--	--	--	--	--	30	31	--	--	--	--	--	--	--	--	--	--	--	--

OCTOBER							NOVEMBER							DECEMBER						
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11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26
25	26	27	28	29	30	31	29	30	--	--	--	--	--	27	28	29	30	31	--	--

1954

JANUARY							FEBRUARY							MARCH						
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10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27
24	25	26	27	28	29	30	28	--	--	--	--	--	--	28	29	30	31	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

APRIL							MAY							JUNE						
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4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
25	26	27	28	29	30	--	23	24	25	26	27	28	29	27	28	29	30	--	--	--
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ACADEMIC CALENDAR—1953-54

FALL SEMESTER, 1953

August 15	Applications for admission and transcripts of record should be filed with the Registrar prior to this date. Credentials from colleges should be on file earlier to allow time for evaluation.
Monday, September 7	Faculty meetings
Tuesday, September 8	Orientation and Personnel Tests for all entering freshmen or new students. (Entering freshmen and other new students should report for the Freshman Assembly at 8.30 a.m. on September 8 in the Auditorium). College Elementary School opens.
Wednesday, September 9	Continuation of Orientation and Personnel Tests for freshman students. Program counseling for former students.
Thursday, September 10	Program counseling for freshmen
Friday, September 11	Registration and payment of fees
9.00-10.30	Surnames beginning with A-E
10.30-12.00	Surnames beginning with F-L
1.00- 2.30	Surnames beginning with M-R
2.30- 4.00	Surnames beginning with S-Z
Monday, September 14	Instruction begins
Monday, October 5	Registration for Extension Classes
Friday, October 9	Last day for program changes without penalty
Friday, October 30	Final registration date for extension
Friday, November 6	Mid Term
Wednesday, November 11	On-campus observance of Armistice Day
Friday, November 13	Mid term warning notices issued
Thursday, November 26	Thanksgiving Holiday
Friday, November 27	Thanksgiving Holiday
Thursday, December 17 through Sunday, January 3	Christmas Holidays
Wednesday, January 20	Final Examinations
Thursday, January 21	Final Examinations
Friday, January 22	Final Examinations
Friday, January 22	Closing date for Extension Classes
Saturday, January 23	Final Examinations
Saturday, January 23	Semester ends

SPRING SEMESTER, 1954

January 8	Applications for admission and transcripts of record should be filed with the Registrar prior to this date. Credentials from colleges should be on file earlier to allow time for evaluation.
Thursday, January 21	Entering freshmen and other new students should report for the Freshman Assembly at 8.30 a.m. on January 21 in the Auditorium. Orientation and Personnel Tests for all entering freshmen and other new students.
Friday, January 22	Continuation of Orientation and Personnel Tests for freshmen and new students.
Monday, January 25	Program counseling
Tuesday, January 26	Registration and payment of fees
9.00-10.30	Surnames beginning with A-E
10.30-12.00	Surnames beginning with F-L
1.00- 2.30	Surnames beginning with M-R
2.30- 4.00	Surnames beginning with S-Z
Wednesday, January 27	Instruction begins
Monday, February 8	Registration for Extension Classes
Friday, February 26	Last day for program changes without penalty
Friday, March 5	Final registration date for extension
Friday, March 26	Mid Term
Friday, April 2	Mid term warning notices issued
Saturday, April 10 through	
Sunday, April 18	Easter Holidays
Friday, May 21	Closing date for Extension Classes
Saturday, May 22	Final Examinations
Monday, May 24	Final Examinations
Tuesday, May 25	Final Examinations
Wednesday, May 26	Final Examinations
Thursday, May 27	Final Examinations
Friday, May 28	Final Examinations
Sunday, May 30	Baccalaureate and Commencement
Sunday, May 30	Semester ends

SUMMER SESSION

June 21-July 30

POST SESSION

August 1-August 27

NOTE TO THE PROSPECTIVE STUDENT

A WORD ABOUT THE COLLEGE

Humboldt State College offers the prospective student many advantages and attractions. It is a five-year fully accredited college, whose courses are organized to meet a variety of educational needs. The basic studies in the liberal arts and sciences afford an opportunity for a cultural education. With some degree of specialization, these courses provide professional training in teaching, social service, business administration, and other fields. Also, they provide the background work which is required for many more highly specialized professions such as medicine, dentistry, or engineering.

The College also offers practical training programs in secretarial work, wildlife management, fisheries, dairying, lumbering, radio production, and other vocational fields.

Besides these educational facilities, the College affords a congenial dormitory life, an activity program (music, athletics, dramatics), in which all are encouraged to participate, and a natural environment that is unexcelled for scenery and opportunity for outdoor life. And lastly, though not least, the friendliness of the students, and the cordial relationship existing between faculty and students are factors that promote the happy adjustment of the new student.

In cooperation with federal and state agencies, Humboldt State College offers to veterans of World War II and the Korean War an opportunity to pursue an educational program under highly favorable circumstances. Those eligible to receive government aid should consult representatives of the Veterans Bureau and the college authorities regarding enrollment.

A WORD ABOUT THIS CATALOG

This catalog is your introduction to the purposes and opportunities at Humboldt State College. In it you will find the information necessary for an understanding of the offerings of the College, its organization, and the way in which it functions. Careful study of it will enable you to follow the curricular requirements and regulations with a minimum of personal assistance.

Acquaintance with some matters may well be postponed until after you have become well established in the College, but you should familiarize yourself with the following parts of this catalog as soon as you have decided to enter the College:

(1) *How You Enter the College.* The requirements and procedure for enrolling in the College are explained in the section entitled "Admission to the College." (See page 24.) The procedure for enrolling in classes is specified under "Academic Regulations." (See page 29.)

(2) *College Rules and Regulations.* The rules and regulations applying to all students are found in the section "Academic Regulations." (See page 29.) All students are held responsible for a knowledge of them. Those requirements referring to particular curriculums are found under "Curriculums and Degrees." (See page 46.)

(3) *Your Course of Study.* You will find the various curriculums outlined under "Curriculums and Degrees." (See page 46.) Detailed information is given under the various divisions in the section "Courses of Instruction." (See page 54.) A system of cross references to pages in both sections should enable you to find your information readily. The explanatory note on page 49 is called to your attention.

(4) *Your Expenses.* Expenses and fees charged by the College and the student body are listed under "Fees and Expenses." They are payable at the time of registration (except in the case of veterans registering under a government program). Living arrangements are discussed under "Student Life." (See page 16.) In the next section, you will also find information regarding scholarships and loans that are available; directions for seeking employment are given under "Fees and Expenses." (See page 34.)

If you have questions, please feel free to communicate with the Registrar of the College or, if you can, visit us personally.

Meanwhile, we invite you most cordially to come to Humboldt and hope we can welcome you when the new semester opens.

THE PRESIDENT AND FACULTY OF HUMBOLDT STATE COLLEGE

THE COLLEGE

LOCATION

Humboldt State College is located in Arcata, which is situated on the north shore of Humboldt Bay in Northern California. Backed by high, forested hills, the College occupies a conspicuous position along a hillside, about a mile from the center of town. It commands an unrestricted panorama of forested mountains, bay, dairy and farm lands, sand dunes, Pacific Ocean, and at night the lights of Arcata, Eureka, and Samoa.

Arcata, the first town to be established in northwestern California, is located on the famous Redwood Highway eight miles north of Eureka and 300 miles north of San Francisco. It is reached by the Northwestern Pacific Railroad, Pacific Greyhound Lines, and by Southwest and United Air Lines. It has a population of over 3,800. Lumbering, box manufacturing, and dairying form the basis of the business life of the community. Eureka nearby is a thriving city of about 23,000 people. It is the county seat of Humboldt County and is the site of woolen mills and large lumber mills. About 50 miles south of Eureka is Cape Mendocino, the westernmost point of the mainland of California.

The climate of the Humboldt Bay region, though moist, is stimulating and equable, the extremes of heat and cold being absent. Summer and fall are particularly delightful seasons.

PHYSICAL EQUIPMENT

Campus and Buildings

The College operates in a compact group of buildings and other facilities on an appropriately landscaped campus of approximately 75 acres. The main building, a rectangular two-story structure surrounding an inner court, houses the administrative offices, faculty offices, classrooms, social unit, and auditorium. In the rear are a modern gymnasium and stadium, with turf playing field and facilities for football, baseball, and track.

Back of the athletic field and gymnasium, the College owns a large tract of second-growth redwood forest, in which have been cut a number of trails and clearings for purposes of recreation and botanical study.

In front, across the street from the main building, are four tennis courts for the use of the students and faculty. The Student Union Building provides attractive quarters for the student fountain and bookstore, student body offices, and the college health unit. Music and radio studios, a small greenhouse, a fish hatchery, and game-bird breeding pens have been provided for specialized class projects.

Jenkins Hall, a new and beautiful industrial arts building, was completed in 1950.

Campus housing includes Nelson Hall, a modern dormitory for women; Redwood Hall for men students, and Humboldt Village, where married students are accommodated.

The library, and a new biological science building were occupied during the Spring Semester of 1953. Maintenance shops are located in the new corporation building, also completed in 1953.

A number of prefabricated buildings have been erected on the campus to provide temporary facilities for laboratories, classrooms, offices and student activities.

Library

The library, situated immediately south of the Administration Building, contains some 40,000 volumes. This collection is well distributed as to subject matter, including recreational reading, and is constantly being enlarged. About 400 periodicals are received, almost two-thirds of which are scientific and professional and the rest of general interest. To supplement its holdings, the library draws upon the collection of the California State Library, the University of California Library and other research libraries with which interlibrary loan service is maintained. The library needs of the College are adequately met.

College Elementary School

The College maintains a large, well-equipped elementary school on the campus, a short distance from the main building. It is here, as well as in the schools of Eureka and Arcata, through the cooperation of their school authorities, that the student teaching by the teaching credential candidates is conducted.

The College Elementary School extends from the kindergarten through the eighth grade and is housed in a commodious and modern building of reinforced concrete. Fenced-in playfields are provided for the demonstration of a modern program of physical education.

Master Development Plan

In 1951 the State Department of Public Works approved a master development plan for Humboldt State College, which when completed will provide an adequate campus for the predicted 1,600 students in 1965. The plan projects 10 classroom buildings and two additional dormitories. Included for future construction are the following in order of priority: wildlife and fisheries building; first wing of the fine and applied arts building; men's gymnasium and swimming pool; administration building; student union and cafeteria; health building; physical science building; metal shops home economics building; and an addition to the library.

Additional land is being procured for the campus, which when completed, will be replete with facilities for the various training programs, student activities, and student housing. It will be able to meet all the educational and cultural needs of the north-coast counties as well as provide training in special fields to the many students who come to Humboldt from other areas.

HISTORY

Humboldt State College is one of the 10 California State Colleges which have developed out of the old state normal schools. Its progress from a two-year normal school to a five-year liberal arts college is detailed in the following historical outline:

- June 16, 1913—Humboldt State Normal School was established by action of the Legislature. The bill creating the institution was introduced by the Honorable Hans Nelson, Senator from Eureka. The first president was Nelson B. Van Matre, and control was vested in a local board of trustees appointed by Governor Hiram Johnson.
- April 6, 1914—Instruction began, classes being held in the Arcata Grammar School buildings.
- May 26, 1915—First commencement was held, with 15 students receiving diplomas.
- Jan. 1, 1916—College moved to newly constructed temporary buildings on its permanent campus of 51 acres, donated by William A. Preston and the Union Water Company.
- 1917— Legislature appropriated \$245,000 for the construction of the Administration Building.
- 1921— Name was changed to Humboldt State Teachers College and control was transferred to State Board of Education. Three- and four-year curriculums were authorized. Granting of the bachelor of arts degree in education was authorized.
- 1922— Main Building was completed and occupied.
- 1924— Dr. Ralph W. Swetman became president.
- 1926— First bachelor of arts degree was conferred on May 7th.
- 1928— Humboldt State College Improvement Association was formed. The original members were: H. W. Jackson, S. D. Cerini, Ralph W. Bull, J. J. Krohn, Vernon L. Hunt, Henry F. Brizard, Frank H. Tooby, George Averill.
- 1930— Arthur S. Gist became president.
The new gymnasium was completed.
Liberal arts curriculums were established in the fields of biological sciences, English, and social sciences.
- 1932— Tennis courts and parking area were constructed.
- 1933— The College Elementary School was completed.
- 1935— The name was changed to Humboldt State College and authorization given to grant the bachelor of arts degree in the liberal arts.
- 1937— Bachelor of education degree was authorized.
- 1940— Nelson Hall was completed, the only permanent dormitory on a state college campus.
- 1946— Redwood Bowl was completed, culminating a long cooperative enterprise between the State and Federal Governments.
College was accredited by the Northwest Association of Secondary and Higher Schools; and re-accredited by the State Department of Education for teacher training.
- 1947— General secondary credential was authorized, necessitating fifth year of graduate work.

- 1949— The master of arts degree in education and the social sciences was authorized. The bachelor of science degree was authorized for certain specialized curriculums.
- 1950— Jenkins Hall (Industrial Arts building) was completed, and dedicated in April. The radio studio was remodeled.
The first master of arts degrees were conferred on June 7th.
Dr. Cornelius H. Siemens became president on July 1st.
The master plan for campus development was approved. Old temporary buildings were razed; Varsity Hall was remodeled as a Student Union building. Music Hall was remodeled to accommodate part of the music classes.
College was re-accredited for teacher training by State Board of Education.
- 1951— College was accredited for five-year period by Western College Association.
New Advisory Board was appointed with Don O'Kane, chairman, and Edward Goodwin, vice chairman.
- 1953— Library, Biological Science and Corporation Buildings occupied.
Forestry-Lumbering and Dairying curriculums added to the two-year occupational training program.

STUDENT LIFE

LIVING ACCOMMODATIONS

Living accommodations for students in residence at the college dormitories are provided at Nelson and Redwood Halls. Nelson Hall has two wings separated by the college cafeteria. One of these wings houses women students and the other is occupied by men or women as the need develops. Redwood Hall houses men only. Student rooms are double in Nelson and Redwood Halls. Rental rates have been set by the State Board of Education. The college furnishes bed linen, towels, blankets, and laundry service for these items.

Thirty housing units located in Humboldt Village are available for married students. These houses are pleasantly situated on the border of the campus. The rates vary from \$35 to \$40 per month, including utilities. The College supplies stoves and a limited amount of essential furniture in these cottages.

All lower division women students not commuting daily from their homes must live in Nelson Hall unless approval is secured from the Associate Dean of Students (Activities).

RESERVATIONS AND DEPOSITS

Applications either for a room in a dormitory or for a house in Humboldt Village must be made in advance to the Business Manager of Humboldt State College, Arcata, California, on forms provided by the College. Each application must be accompanied by a deposit of \$10. *Actual room assignments are not made until the applicant has been admitted to the College as a student by the Registrar.* (See page 24 for instructions on filing the Application for Admission.)

If an applicant is denied admission to the College, the deposit of \$10 is immediately refunded. If the applicant is approved for admission to the College, but decides not to enroll, he must apply to the Business Manager of the College for the refund of his deposit before September 1, 1953. Since room assignments are made on the basis of room deposits, no refund will be made after that date. If an applicant enrolls in the College, the deposit is refunded at the time he leaves, providing the room or house occupied is in good condition.

Students who live in dormitory rooms are expected to remain in residence through the semester. If exceptional circumstances make moving necessary, formal application for a refund with approval from the Office of the Dean of Students must be made at least 15 days in advance. If an application is made with less than 15 days notice, the refund will be reduced by \$5 or by the amount of rent covering a 10-day period, whichever is less. No rent refunds will be made amounting to less than \$5.

Each woman student who is not personally known to members of the faculty is requested to furnish the Dean of Students *with two letters recommending the applicant's character and integrity.* These letters may be from teachers or friends who have a personal acquaintance with the applicant.

BOARD

Students who live in Nelson Hall or Redwood Hall are required to purchase meal tickets for board in the College Cafeteria. Students who room off the campus and members of the faculty may also purchase meal tickets. The cafeteria offers an *a la carte* menu for lunch for those without meal tickets. Guests of students, or students without meal tickets may eat in the cafeteria at established transient rates.

No allowance is made for occasional meals missed, but a two-thirds refund is made for meals missed for three or more consecutive school days when the reasons for missing the meals are approved by the Dean of Students.

RATES AND PAYMENTS

The rates for rooms are fixed by the State Board of Education as follows:

Nelson Hall	-----	\$75 per semester
Redwood Hall	-----	\$65 per semester

Charges for room and board for each semester are due and payable in advance. It has been found that it is an advantage to most students to pay for the entire semester in advance. Anyone moving from the dormitory or withdrawing from the college must secure a refund in accord with the rules and regulations.

For the student who finds it necessary to make board and room payments in installments, the following schedule of payments has been established. In order to make payments by the month, arrangements must be made in the Business Office at the time of registration.

	Nelson Hall With seven- day meal ticket	Redwood Hall With seven- day meal ticket
Final pay date		
September 15, 1953	\$112.00	\$106.00
November 1	70.00	68.00
December 1	70.00	68.00
January 1, 1954	70.00	68.00
February 1	70.00	68.00
March 1	70.00	68.00
April 1	70.00	68.00
May 1	70.00	68.00
Total for year	\$602.00	\$582.00

DORMITORY SCHEDULE

August 25, 1953	-----	Last day to cancel room reservations and secure refund of deposit
September 6	-----	Open for freshman and new students
September 8	-----	Open for upper class students
December 16	-----	Close for Christmas vacation
January 3, 1954 (noon)	-----	Reopen
April 9	-----	Close for Easter vacation
April 18 (noon)	-----	Reopen
May 31 (noon)	-----	Close

Please plan to arrive on or after the dates specified above. Admittance cannot be granted prior to the time indicated.

The cafeteria is closed for Christmas, and Easter vacations.

STUDENT ORGANIZATIONS

The Associated Students

Participation in student activities, some of which carry college credit, is encouraged in the belief that such experiences may profitably supplement the student's academic program. The Associated Students is the official organization of the student body. It provides opportunity for democratic self-government. It encourages and regulates all extracurricular activities. It is concerned with the advancement of the intellectual, moral, and social welfare of all in conformity with the aims and purposes of the College and with democratic ideals.

All students are expected to be members of the Associated Students. This membership includes many advantages—an excellent health service, hospitalization privileges, admission to most athletic, dramatic and music activities, and all-college social events. The college newspaper, *Lumberjack*, and the yearbook, *Sempervirens*, is sponsored by the Associated Students. They also operate the student cooperative store which includes a snack bar and bookstore. Student body membership is prerequisite to participation in any extracurricular activity sponsored by the Associated Students. The membership fee, payable on registration day, is \$11 for the first semester and \$9 for the second.

Secondary privileges offered by this membership are the privilege of voting in student elections, club membership, qualification for candidacy when nominated for office, and participation in intercollegiate athletics.

To recognize scholastic achievement, encourage particular interests, and afford recreation, the students have established a number of organizations which are authorized by and coordinated through the Associated Students. Among these organizations are the following:

A Cappella Choir	Intercollegiate Knights
Accounting Society	Mu Epsilon Psi (music club)
Alpha Psi Omega (a National dramatics fraternity)	Newman Club
Amateur Radio	Physical Education Club
Auto Enthusiasts	Rally Committee
Block H	Rifle Club
Chi Sigma Epsilon (local scholas- tic honor society)	Residence Hall Groups
Christian Roundtable	Rho Mu Chi (Radio Mike Club)
The College Chorus	Rho Sigma (sophomore honor society)
Conservation Unlimited	Spokes (women's service group)
Drama Club	Students Christian Association
Home Economics Club	Student Teachers' Club
Humboldt State College Ski Club	Women's Athletic Association
Humboldt Wives Club	Class organizations (freshman, sophomore, junior, and senior)

THE ALUMNI ASSOCIATION

Of interest to students, both while attending the College and during the years following, is the Humboldt State College Alumni Association. This organization is active in the support of all college activities, and sponsors several social events annually for the benefit of the students. The association seeks to perpetuate college friendships, to promote the best interests of the institution, to acquaint prospective students and the community at large of the opportunities open to them at Humboldt

State College, and to support projects that contribute to the progress of the College.

Graduates and former students who have completed at least six units of work are eligible to membership in the association which holds annual or semiannual meetings, and publishes an alumni quarterly.

Former students who are eligible for membership may obtain a life membership in the association by the payment of a fee of \$10.

SOCIAL LIFE

The social atmosphere of Humboldt State College is planned to contribute both to the enjoyment of the students and to the development of social poise and gracious living. Numerous dances, teas, informal get-togethers and other social affairs are sponsored by various student organizations during the year. Special events are planned to welcome the new students.

ATHLETICS AND RECREATION

A well-rounded program of activities in the field of athletics and recreation includes regularly organized classes in a variety of sports; scheduled intramural competition for both men and women; utilization of regional resources for individual or group recreation, such as fishing, skiing, swimming, and hiking in the redwoods or at the beach; and participation in intercollegiate football, basketball, baseball, track, and other sports. The College is a member of the Far Western Conference, and the regulations of the conference govern athletic eligibility.

The Division of Health and Physical Education requires all men and women participating in intercollegiate or intramural sports to pass a health examination each season.

MUSIC, DRAMATICS, AND RADIO

In addition to the musical activities offered as part of the academic program of the College (including the college chorus, little symphony orchestra, band, and a cappella choir), the music department seeks to enrich the musical background of all students through listening hours, sponsorship of a series of concerts in which noteworthy musicians of the West are presented under the auspices of Mu Epsilon Psi, and through cooperation with the Community Concert series, which makes available to students at reduced rates, concerts by noted artists.

Widespread opportunity for participation in dramatics is offered to the students through a varied calendar of events ranging from Shakespeare to modern one-act plays. Interest is further highlighted by the annual drama festival for the high school students of northern California, and by the annual interchange of plays with Chico State College. The Dramatic Workshop provides experience in other arts and crafts of the theater: scene design, stagecraft, lighting, and makeup.

The presentation of radio programs over the campus station, KHSC, and over the commercial radio stations in Eureka, KIEM and KHUM, provide practical experience for students interested in radio broadcasting.

COUNSELING AND GUIDANCE

The College maintains a program of counseling and guidance designed to aid the entering freshman in making a satisfactory adjustment and to afford an adequate follow-up program throughout his stay at Humboldt State College. Since many factors affect the academic progress of a student and his ultimate success in life, the guidance program is many-sided and every faculty member participates in some phase of the program. The activities of the various agencies are coordinated by the Dean of Students.

At the time of registration individual attention is given by the faculty program advisers, who are assigned on the basis of vocational objective or major field. A student is free to consult his adviser at all times concerning academic or personal problems. The academic success of his students is a matter of paramount concern to every instructor, and the policies of the College are geared to the attainment of high scholastic standards.

The College provides facilities for administering many types of standardized tests under the direction of the Testing Bureau. All students take the Ohio Psychological Examination (i.e., the college aptitude test), the Iowa Silent Reading Test, the Kuder Vocational Preference Test, and the Mental Health Analysis.

The facilities of the office of the Dean of Students are available during the college year for counseling and guidance assistance, particularly with freshmen and other new students.

An excellent opportunity for group guidance and social living is provided through the college dormitories. The head residents administer the internal affairs of the dormitories, employing student government insofar as it is feasible to do so.

HEALTH SERVICE

To safeguard the health of its students the College maintains a College Health Service. This includes the services of a physician every school day of the college year. A full-time nurse is available daily from 8 a.m. to 5 p.m. Students are encouraged to make use of this service whether it be for major or minor ailments. The services offered are limited only by the availability of personnel and equipment.

At least three medical examinations are given each student as follows:

- (1) At entrance (including a dental examination) ;
- (2) During the junior year ;
- (3) Before graduation.

Emergency treatment is given in case of accident or illness. Limited hospital service with special rates in the local hospital is available to students who make arrangements for such services through the Health Department.

VETERANS' SERVICE

For veterans, either of World War II or of the Korean War, special counseling and guidance services are available. Several members of the faculty have served in the armed forces and all are interested in the returned veterans and their problems.

When the need for specialized guidance and counseling is apparent, such services may be scheduled with the Veterans Administration Advice and Guidance Section in San Francisco upon the signed application of the veteran. This applies to veterans who are enrolled under Public Law 346, as well as Public Law 16. A Veterans Administration Training Officer makes frequent, periodic visits to the College. Members of the counseling staff of the College are also available to assist any veteran in determining his vocational goal or in solving his personal problems.

A faculty committee has been appointed to keep in touch with developments in regard to military training and programs offered by the various branches of the armed forces, for the information and guidance of students anticipating military service.

AUXILIARY COLLEGE SERVICES

SUMMER SESSION

The summer session meets the needs of a wide variety of students. It is of particular value to those who wish to accelerate their work. High school graduates may enter as freshmen during the summer instead of waiting until fall. A student who attends the summer session each year while he is in college may be able to cut as much as a full year from the time necessary to complete the requirements for a degree. Many courses are planned especially for teachers or others who may be working on credentials or a master's degree. It is possible to enroll as a special student in the summer session without seeking admission to the College as a regular student. The temperate climate and the scenic beauty of the region make Humboldt a very attractive place to spend the summer. The Summer Session Bulletin or other information may be obtained from the Office of the Summer Sessions.

EXTENSION PROGRAM

To supplement its regular program of offerings the College conducts an extension program, with classes scheduled to be held one evening each week in various nearby localities. Any undergraduate course listed in the College Catalog can be offered in extension if there is sufficient demand. Whenever a course is requested by 15 or more individuals, an attempt will be made to organize a class for them in a convenient location. Requests for such courses, or for information concerning them, may be addressed to the Coordinator of Extension Services at the College.

Consult the Academic Calendar for extension registration dates.

LATE AFTERNOON AND EVENING CLASSES

In addition to the regular extension courses, a number of regular college classes are scheduled late in the afternoon or in the evening. This often makes it possible for students who are employed full time during the day to carry a part-time load of college classes. Most of the graduate courses are scheduled at these hours to enable teachers in the region to attend them.

PLACEMENT SERVICE

The Placement Bureau of the College is maintained to assist graduates and alumni to find positions best suited to their training and ability, and to assist employers by recommending to them candidates best qualified for the positions to be filled. For those registered with the bureau confidential recommendations are compiled and furnished to prospective employers, together with other data concerning the candidates. Alumni are encouraged to keep their records active in the Placement Bureau and

to use its service in seeking new positions. In addition each of the instructional divisions maintains up-to-date information as to employment opportunities in its respective fields and works cooperatively with the bureau in the placement of its graduates.

STUDENT EMPLOYMENT SERVICE

Opportunities for part-time employment are available for deserving students. The college employs as much student help as possible. The college also has requests for assistance for light housework, care of children, janitorial and clerical work. Application for employment should be made to the Dean of Students before registration.

For information in regard to loans and scholarships which are available, see pages 36-45.

COMMUNITY SERVICE

Inasmuch as the College is a state institution, its facilities, when not in use for college purposes, are available for use by the citizens of the State. It particularly welcomes conventions, conferences, and assemblies of an educational or cultural nature. The college auditorium seats 350. Arrangements for the serving of meals in the dining hall should be made with the Business Manager of the College.

FACULTY CONSULTANT SERVICE

Various members of the faculty of Humboldt State College are frequently called upon to serve as consultants to educational, business, and professional enterprises in the vicinity of the College. This serves both to give the College a practical tie with the economic life of the community, and to give instructors a practical outlook in teaching their classes.

ADMISSION TO THE COLLEGE

HIGH SCHOOL PREPARATION

Although Humboldt State College does not require the completion of specific subjects in high school as a prerequisite for admission, it is recognized that some courses may provide better preparation for college work than others. A broad, general education with exploratory courses in many fields should assist the student in the selection of his major curriculum. Background courses which are often prerequisite to advanced work and which should, if possible, be taken in high school, include the following: elementary algebra; plane geometry; and English, with particular emphasis upon composition and usage. Future teachers should take a variety of courses, including mathematics, science, foreign language, social science, and exploratory courses in fields of art, music, commerce, shop, or home economics to develop skills and interests. Engineering students should take at least three years of high school mathematics, chemistry, physics, and mechanical drawing. Prenursing students are advised to take chemistry, and premedical students should take as much foreign language as possible (preferably Latin and a modern language). Students interested in business administration or in wildlife management should include advanced algebra and trigonometry in their high school programs.

College students find the ability to type of immense practical value.

It should be emphasized that good habits of study and quality of work are of more importance than the specific pattern of courses chosen. Attention to the development of improved reading and spelling skill, enlargement of vocabulary, and mastery of the fundamentals of English usage will mean greater success not only in college, but also in later business or professional life.

HOW TO APPLY FOR ADMISSION

The following steps indicate the procedures to be followed by the student who desires to enroll in Humboldt State College:

1. Obtain the following blanks from the office of the Registrar, fill them out as directed, neatly and accurately, and return them to the Registrar:

- (a) Application for admission (see calendar for deadline dates).
- (b) Health blank.
- (c) Housing blank (if campus housing is desired).

2. Have high school transcript of record submitted to the Registrar by the principal of the high school last attended.

3. Have an original, official transcript of record submitted to the Registrar from *each* institution attended since graduation from high school.

4. Submit the \$2 evaluation fee (required only if the student has previously attended another college or university).

An applicant who has attended a junior college, four-year college, university, extension classes of college level, or any comparable institution since graduating from high school is governed by the regulations regarding admission with advanced standing. Such college attendance may not be disregarded, even though no courses may have been completed.

All documents used for admission to the College become the property of Humboldt State College, and cannot be returned to the student.

REQUIREMENTS FOR ADMISSION

High School Graduates

For admission to the College, a high school graduate, or other applicant who is judged by the appropriate college authorities to possess equivalent preparation, must, as a minimum, have completed the equivalent of five Carnegie units of course work with grades of A or B on a five-point scale during the last three years in high school, *or* must attain the twentieth percentile on the national norm of a standard college aptitude test.

Provisional admission for one semester may be granted to students who fail to meet the standards prescribed above, upon the recommendation of the Associate Dean of Students in charge of guidance. Depending upon the results achieved in this trial semester, three alternative courses will be open to these students: (a) they will be permitted to enroll freely in their chosen fields, or (b) they will be allowed to remain in college, carrying a program of selected courses which in the judgment of the Associate Dean will enable them to profit from further attendance, or (c) they will be asked or advised not to re-enroll.

ADMISSION WITH ADVANCED STANDING

From Accredited, Degree-granting Colleges

An applicant for admission who has earned credit in accredited colleges or universities may be admitted and given advanced standing as determined by the proper authorities. The applicant must present transcripts of record showing *satisfactory scholarship and honorable dismissal* from the institution last attended. Transfer students are required to meet the pattern prescribed in the chosen curriculum.

From Accredited Junior Colleges

An applicant for admission who has earned credit in a junior college may be admitted if the transcripts of record show *satisfactory scholarship and honorable dismissal* from the institution last attended, except that in case the applicant was ineligible for admission on the basis of his high school record, he must as a condition of admission have completed 24 or more semester units of college work with a grade-point average of 1.0 or better in the total program attempted.

Credit transferred from a junior college is subject to the following provisions:

1. Not more than 64 semester units of work may be allowed for credit.

2. No upper-division credit may be allowed for courses taken in a junior college.

3. Elective credit may be allowed for semiprofessional courses in which the student has a grade of "C" or better.

4. No credit may be allowed for professional courses in Education.

Credit for Experience

No credit toward the bachelor of arts or bachelor of science degrees is allowed for teaching or other practical experience. Specific requirements in certain departments may be waived, however, on the basis of previous experience. An exemption allowed for experience will not carry units of advanced standing nor diminish the number of units required for graduation.

Credit for Military Service

Veterans may receive credit for military service in compliance with the recommendations of the American Council Guide to the Evaluation of Educational Experiences in the Armed Service, and the regulations governing the California state colleges. Wherever possible, this credit will be applied in satisfaction of specific requirements, but if this is not possible, it will be treated as unclassified, elective credit. Credit is allowed for courses of college level completed in the United States Armed Forces Institute and other institutes maintained by special branches of the armed services, upon the presentation of properly documented evidence.

SPECIAL CASES

An applicant who has attained the age of 21 years and is not a high school graduate may be admitted to the state college as an adult special student provided that there is evidence of his ability to profit from college work. If such a student completes, with a grade point average of 1.0 or better, a program of 24 semester units of residence work in basic courses leading to a degree, he shall not be required to remove entrance deficiencies.

In exceptional cases, a student who does not meet the requirements for admission as set forth in the sections above may be granted permission to enroll under conditions prescribed by the Admissions Committee.

ADMISSION TO THE GRADUATE DIVISION

Holders of bachelor's degrees from accredited institutions will be admitted to the graduate division upon presentation of proper transcripts. Admission to candidacy for the general secondary credential or for the master of arts degree is contingent upon the satisfactory attainment of the personal and scholastic qualifications as prescribed in the regulations of the State Board of Education and the College.

TRANSFER TO OTHER INSTITUTIONS

Humboldt State College is accredited by the Western Colleges Association, by the University of California, and by the State Department of Education.

Holders of the A.B. or B.S. degree from Humboldt State College are accepted for unconditional admission to the graduate school of the University of California at Berkeley upon presentation of transcripts of record. The amount of work to be taken for an advanced degree is determined when the student is interviewed at the university. This same procedure is applied to graduates of all universities and colleges. Accreditation by the state university implies similar acceptance by other institutions. Humboldt students transfer freely to other colleges, universities and professional schools.

All students intending to transfer to another institution should consult the requirements of the institution to which they intend to transfer and arrange their programs at Humboldt accordingly.

During the present emergency, many professional schools have introduced varied screening devices, so that admission is on a highly selective basis. Students who expect to transfer to these professional schools should acquaint themselves with prevailing standards in the particular fields to be pursued.

COLLEGE APTITUDE TEST

All new students are required to take the college aptitude test, which is given each semester, unless previous test scores on a similar test have been submitted by the college formerly attended.

REMEDIAL PROGRAM

The College is prepared to offer work in certain fields that is remedial in character, when the entrance examinations indicate that a student's chances for success in college would be enhanced by remedial study in given areas. Not more than six units earned in such courses may be applied toward the bachelor's degree. All remedial courses are designated by the letter "X."

English X

Students who enroll as freshmen at Humboldt State College are required to take the English X examination during the registration period. Those who pass this test with a satisfactory score enroll in English 1A, First-year Reading and Composition, during the first semester in college. Those who fail the examination are required to take English X, English Composition. Although credit (three units) is given for English X, these units may not apply toward the units in English required for a bachelor's degree. The English X examination is a thorough test in English usage and composition.

All entering students are required to take this examination except (a) those who have passed the University of California Subject A examination; or (b) those who have passed a course in composition in a college or university which is at least the equivalent of English X.

Psychology X

A student who scores below the twentieth percentile on the reading test will be required to enroll in the course in remedial reading, Psychology X, Reading Study Service. This course carries one unit of credit,

and may be repeated once for a total of two units, upon the recommendation of the instructor.

Speech X

Students who need remedial work in speech are urged to register for Speech X, Speech Clinic. This work is given for one-half or one semester unit of credit, depending upon the nature of the difficulty and the amount of time spent in study. A maximum of two units of credit may be earned in this course.

REGISTRATION

Students should report for registration in compliance with the schedule announced in the calendar. (See page 8.) A faculty adviser is assigned to each student according to the curriculum he selects. After a program has been approved by the adviser, the student completes his registration by the payment of fees and the filing of his registration and course cards.

The student's official study list is filed in the office of the Registrar. Since this list is the basis for official reports and records, the student must assume responsibility for keeping this list accurate at all times.

Prior to formal registration, conferences may be held with advisers or with the Registrar about suitable programs or course requirements.

New students, both freshmen and transfers, should make preliminary arrangements for registration and evaluation of transcripts before the opening of the semester. Transcripts of former work should be filed with the Registrar two weeks in advance.

Students who are unable to report for registration during the designated period must make special arrangements with the administration and the faculty concerned. A special fee of \$2 is collected for late registration.

INFORMATION ABOUT DEFERMENTS AND SELECTIVE SERVICE

The Dean of Students at the College keeps himself constantly informed about the deferment policies of the Selective Service. In the past students have been granted a II-S classification so long as they continued to make normal progress in their college programs. The various branches of the armed services have likewise permitted students participating in reserve and national guard programs to continue their college studies.

Any applicant for admission to the College may receive a summary of the current policies relative either to deferment or the reserve programs by writing a request outlining his particular problem to the Dean of Students, Humboldt State College, Arcata, California.

ACADEMIC REGULATIONS

A semester hour (or semester unit) is defined as one hour a week of lecture or class instruction for one semester, or its equivalent of laboratory, field work, or other types of instruction. In general, it is expected that the average student will spend two hours in preparation for one hour of lecture or recitation.

CLASSIFICATION OF STUDENTS

Students are classified in two ways in terms of number of units completed.

Students who have completed less than 60 units are classed as *lower division students*. Ordinarily they are allowed to enroll only in lower division courses (see page 49). Students who have completed 60 or more units are classed as *upper division students*. They may enroll in both lower and upper division courses.

A student's class is determined by the number of units completed, as follows:

Freshmen	Less than 30 units
Sophomores	30 to 59½ units
Juniors	60 to 89½ units
Seniors	90 or more units

During a given semester students registered for more than six units are classified as *regular* students. Students registered for six units or less are known as *limited* students.

MARKING SYSTEM

Grades

A five-grade marking system is used. The grades employed are defined as follows:

A	Excellent
B	Above Average
C	Average
D	Barely Passing
F	Failure

Plus (+) as given in certain courses means passed with a grade of "C" or better. Inc. means "incomplete," W "withdrawn."

"Incomplete" will be given to students who have been doing passing work and who, through no fault of their own, are unable (a) to take a final examination or (b) to complete certain class or laboratory work by the end of the semester. The grade is not given to students who are failing or who are dilatory. *The uncompleted work must be made up within the next year of residence, or the "incomplete" automatically becomes a failure.*

Grade Points

Each of the above grades carries grade points as follows:

A-----	3 per unit
B-----	2 per unit
C-----	1 per unit
D-----	0 per unit
F-----	0 per unit

No grade points are given for an "incomplete" until the final grade is given. Neither units nor grade points are given for a course from which a student withdraws. Hence, marks of "incomplete" or "W" have no effect upon the scholarship index.

Scholarship Index

The scholarship index is a device for rating a student's scholarship average. It is derived by dividing the total number of grade points earned by the total number of registered units. In computing the index, units are not included for courses that carry no grade points.

If a student repeats a course in which he has received grades of "D" or "F," he will receive the grade and grade points earned in the repeated course except that unit credit will be allowed only once for a course.

Unless otherwise specified, the term "scholarship index" refers to the cumulative rather than the semester index.

NORMAL PROGRAM

The normal program is 15 or 15½ semester units. First-semester freshmen should take from 12 to 15½ units, depending upon the results of their testing programs as evaluated in conference with their advisers. After the first semester, a program of 17 units may be approved upon petition to the Academic Regulations Committee, if the student has made an average of 1.50 in all work undertaken. A program of 18 units may be approved by the committee if the student's average is 2.00 or better.

According to the definition of a semester unit as given above, a program of 15 semester units means 45 hours of class and home work each week.

The approval of the Health Department is also required for students who register for 17 units or more.

Students who find it necessary to earn part or all of their expenses should not expect to carry a full program of class work. If a student is employed more than 15 hours a week, he must file a petition in the office of the Dean of Students if he wishes to carry more than 12 units.

Petitions for overloads should be filed prior to the deadline date for program changes.

A graduate student may take not more than 16 semester units. If his program contains three or more graduate courses, he should limit his program to 12 or 14 semester units.

In order to secure credit for their work students must have their programs approved by the faculty adviser.

Work taken in excess of the authorized load may not be applied toward the minimum units required for the bachelor's degree.

CLASS ENROLLMENT AND CHANGES OF PROGRAM

Enrollment in a given class involves two steps: (a) recording the course on the official study list in the office of the Registrar; (b) filing a course card with the instructor.

Necessary program changes may be made during the first four weeks of the semester through the Registrar's office with the consent of the student's adviser. After the first week of the semester, written permission to add a class must be obtained from the instructor, who has the right to refuse late admission to any class if he feels that it would be too difficult for the student to make up the work.

After the fourth week, permission to *add* courses will be granted only in exceptional cases, and will require approval of the student's adviser and instructor, and of the Academic Regulations Committee.

After the fourth week, permission to *drop* courses will require approval of the Academic Regulations Committee. Petitions accompanied by supporting evidence will be considered by the committee under regulations adopted by the faculty.

Students who make any change in their programs are urged to follow carefully the prescribed procedure.

No student may be admitted to a class unless the instructor has received his course card. The only exception permitted is in those student activities for which credit is given, including interscholastic athletics, chorus, choir, orchestra, band, radio, and dramatic workshop. Students may participate in these activities without registration for credit if they wish, but if credit is desired, registration must take place within the prescribed period for program changes. No exception to this rule will be permitted.

ATTENDANCE

The college administration believes that regular and punctual class attendance is important to a high standard of work. Each instructor makes his own regulations regarding attendance requirements.

Any member of the faculty may exclude from his course any student who has neglected the work of the course, or is discourteous, or persists in practices annoying to the instructor or the class.

AUDITORS

Audited classes must be counted as part of the student's regular load. Veterans who wish to count an audited course as part of the minimum load necessary for full subsistence are required by the Veterans Administration to attend all class sessions and do all of the required work of the class except taking the final examination.

A student who completes a course as an auditor may not subsequently petition for credit.

WITHDRAWAL FROM COLLEGE

Upon petition, an honorable dismissal may be granted to any student in good standing, provided arrangements have been made with the Registrar.

Students who withdraw after the first four weeks of any semester shall be given "W's" or "F's" depending on the quality of their work.

The date of withdrawal is construed to be the date of last attendance in class. During the last four weeks of the semester, students who have to drop out of college because of illness or other unavoidable circumstances may receive "incomplete" grades. This privilege shall be granted only to those whose work is of passing grade at the time of withdrawal.

Students who neglect to comply with these regulations shall have their courses automatically reported as "failures."

REPORTS TO STUDENTS

At the end of the semester, reports are given to the students, the regular marking system being used.

Midsemester reports are made to students doing unsatisfactory work. These reports are followed by conferences with the student's adviser, instructor, or the Dean of Students.

CREDIT BY EXTENSION OR CORRESPONDENCE

Except as provided hereinafter, students regularly enrolled may be admitted to extension classes upon the approval of the student's adviser. In such cases the combined program shall be subject to the established load limitations for regular students. Faculty members may not offer extension courses to regularly enrolled students on an extension fee basis.

The maximum credit toward the minimum degree and credential requirements is set at 24 semester units of either extension or correspondence work; not more than 12 of the units may be transferred from another institution.

An exception to the above ruling is made in the case of returning service men who may receive credit for all extension and correspondence courses which they may have completed, provided the courses are of college caliber, and that the applicant meets the college entrance, residence, and pattern requirements for a degree. The College further reserves the right to administer examinations covering any or all such courses for which credit is asked.

Neither extension nor correspondence credits shall be counted toward the residence requirements, unless an exception is made for a specific class by the institution.

PROBATION AND DISQUALIFICATION

Warning

A student shall be placed on warning who has a grade point shortage on the total units attempted of *five* or less.

Probation

1. Any student who has a shortage of *six* or more grade points on the total units attempted shall be placed on probation.

2. Any student on warning who has failed to achieve a 1.0 index after two semesters shall be placed on probation.

Disqualification

1. As long as a student is on probation he must maintain an average of 1.0 in a program of 12 or more units for each semester. Failure to do so will result in disqualification. Under special circumstances, the student

may carry a lighter load if his program is approved by the Associate Dean of Students in charge of Guidance.

2. Students who fail to achieve a "D" average in a given semester shall be disqualified.

3. Disqualified students may petition for reinstatement through the Committee on Admissions and Reinstatement. In most cases, such reinstatement will be granted only after the lapse of one semester. Reinstated students re-enter upon probation.

4. Any student whose personal conduct is unsatisfactory may be disqualified by administrative action at any time.

FEES AND EXPENSES

FEES

Regular State Fees

Payable by Students Taking More Than Three Units at the Time of Registration

Tuition	\$6.50
Materials and service fee	7.50

*Student Body Fees **

Membership—first semester \$11, second semester \$9. (The fees entitle the student to membership in the Associated Students, services of the Physical Education Department, health and hospitalization services and *Sempervirens*.)

Occasional State Fees

Tuition for students taking three units or less	\$5.25
Materials and service fee for students taking three units or less	2.25
Extension fee—per unit	7.50
Late registration fee—regular students only	2.00
State credential fee—paid directly to Registrar's Office—each credential	4.00
Official evaluation of record for nonmatriculated students	2.00
Special examinations—each examination	2.00
Change of program fee after final filing date	1.00
Miscellaneous penalty fee (failure to meet administratively required appointment or deadline)	2.00
Studio lessons \$1 to \$4 per lesson, payable at time of registration. Certain courses in industrial education, art and science require the student to furnish certain materials for projects which become personal property upon completion.	
Diploma fee at graduation:	
With leather portfolio	2.50
Without leather portfolio	1.00
Transcripts—after first copy—each	1.00

Summer Session Fees

Tuition fee—per unit	\$7.50
Summer session lecture and recreation funds *	.50
Summer session health and physical education fee *	.50
Late registration fee	2.00

(The late registration fee is due and payable by any student who registers after the first three days of the session. Registration day is counted as the first day of the session.)

* Not state fees.

Auditors

Persons enrolled in college classes as auditors only are subject to the above fees in the same manner as those enrolled for credit.

REFUNDS

Students who find it necessary to withdraw from college may, under conditions prescribed by law, obtain a refund of tuition fees. Application for refund must be made not later than two weeks following the day of the term that instruction begins. In case of illness, a duly authorized representative of the student may file the application for him. When a refund is granted, a charge of \$1 per semester is made to cover costs of registration. Students who wish to make application for a refund should consult the Business Manager for further information concerning the regulations which govern such procedure.

Student Body Fees

These fees are not returned if a student has participated in any student body activity.

ESTIMATED EXPENSES FOR REGULAR STUDENT

<i>Item</i>	<i>Total for semester</i>
Registration fee -----	\$6.50
Materials and service fee -----	7.50
Student organization expenses (Club dues, yearbook, hospitalization, physical education, alumni fees, etc.) * -----	25.00
Books, papers, and supplies * -----	35.00
Board and room * -----	300.00
Miscellaneous (entertainment, laundry, cleaning, etc.) * -----	100.00
Total * -----	474.00
Bus fare: Eureka-Arcata, \$6.50 per month.	

* The amount listed is an estimated average.

HONORS, SCHOLARSHIPS AND LOANS

SCHOLASTIC HONORS

Graduation Honors are awarded to graduating students at commencement, subject to the approval of the faculty, on the basis of their scholastic index achieved in their undergraduate work as follows:

- Index 2.00-2.34 — with honor
- Index 2.35-2.74 — with high honor
- Index 2.75-3.00 — with highest honor

Sixty units of work completed in this institution is the normal residence requirement for graduation with honor. Consideration is given to the student's entire record.

HONOR SOCIETIES

Chi Sigma Epsilon is the upper-division honor society, which elects members during the first part of each semester. High scholastic attainment, qualities of leadership, and high ideals of character form the basis of selection.

Rho Sigma is a sophomore honor society, sponsored by Chi Sigma Epsilon, whose active members select them each semester from the sophomore class on the same basis as election to Chi Sigma Epsilon.

SCHOLARSHIPS

A considerable number of scholarships in varying amounts have been set up by individuals and organizations to provide recognition and financial assistance to capable and worthy students. Some are entrance scholarships to be awarded to high school seniors, and others are to be awarded to students already enrolled in college. Further information concerning the scholarships or the method of application may be obtained from the office of the Registrar. Unless otherwise indicated, applications should be filed prior to May 1st with the Registrar for the succeeding school year.

Unless the donor has stipulated otherwise, the scholarships are to be awarded by the Faculty Committee on Scholarships and Awards.

Additional scholarships are being established and will be available for the school year 1953-54.

Also, there are other scholarships which are offered by organizations or individuals where the student may choose the college he wishes to attend. In recent years, students have enrolled at Humboldt State College under scholarships given by the Eureka Business and Professional Woman's Club, the Eureka Woman's Club, the Eureka Kiwanis Club, Trinity Valley Grange, Everett (Washington) Hi-Y Club, The Simpson Logging Company, Ukiah Business and Professional Woman's Club, the London Missionary Society, and others.

Students holding scholarships should carry a full program of studies. It is not expected that a student should apply for more than one award

for a given year. Scholarships are usually paid in two installments at the beginning of the fall and spring semesters. Payment of the second half is contingent upon a satisfactory scholarship record during the first semester.

The scholarships which are currently available include the following :

* *The Associated Business Girls' Scholarship.* The Arcata Chapter of the Associated Business Girls awards a girl graduate of the Arcata Union High School a scholarship of \$100 for the first year of the secretarial training course.

The Arcata Kiwanis Club Scholarship. An annual scholarship of \$100 has been established by the Arcata Kiwanis Club, honoring Maurice Hicklin, a charter member of the club, and a member of the faculty of Humboldt State College. Preference is to be given to a graduate of Arcata Union High School, and to a student interested in youth work (teaching, recreation, social service, and similar fields). The board of directors must confirm the decision of the faculty committee before the award is made.

The Arcata Rotary Club Honor Entrance Scholarship. This annual scholarship of \$100 offered by the Arcata Rotary Club to an outstanding graduate of Arcata Union High School who enrolls as a freshman at Humboldt State College. Applicants must present transcript evidence of high scholarship in the work taken during their last three years in high school, with not less than 10 recommending units from high school as a minimum scholarship requirement. They must also be recommended by the principal as persons of good character who, as high school students, have participated in school activities in a commendable manner.

The Arcata Union Scholarship in Journalism. This annual scholarship of \$100, established by Gordon Hadley, editor and publisher of *The Arcata Union*, is to go to a student specializing in the field of journalism.

The Bella Vista Rod and Gun Club Scholarships. Two scholarships of \$100 each have been established by this club for students majoring in Wildlife Management or Fisheries.

Beta Sigma Phi Scholarships, Zeta Eta Chapter Scholarship. An annual award of \$60 to a student majoring in home economics.

The Brizard-Matthews Machinery Company Scholarship. An annual award of \$100 has been established by the Brizard-Matthews Company to be granted to a deserving student who will enroll, or who is enrolled, in the lumbering course at Humboldt State College. It is otherwise unrestricted.

The Henry F. Brizard Memorial Scholarships. Three honor scholarships have been established by Mrs. Henry F. Brizard, in memory of her husband, who was for many years an active friend of Humboldt State College. These scholarships were established to encourage deserving high school graduates to continue their studies, and students who have already demonstrated their ability at college to do advanced work, in the hope that such students, conformant to the ideals of Mr. Brizard, will render a valuable service to society.

The honor entrance scholarship (\$100) will be awarded to an Arcata Union High School graduate who presents evidence, by transcript, of high scholarship (at least 10 recommending units) in work taken during his last three years in high school, and is recommended by his principal as a person of good character.

An honor upper-division scholarship (\$150) will be awarded to a worthy student who has completed two years of work (60 semester units) at Humboldt State College with a scholarship index of not less than 2.0 (*B* average) and has participated commendably in at least one extra-curricular activity.

A special honor scholarship (\$100) will be awarded to a worthy student who has completed at least 30 semester units of work at Humboldt State College with an index of 1.5 or better, who has distinguished himself in any one special field, as music, drama, art, English, sciences, etc., and who has participated commendably in at least one extracurricular activity.

The Mrs. Nelle Newby Brizard Memorial Fund. This scholarship has been provided by Paul A. Brizard of Arcata in memory of his wife, Nelle Newby Brizard; and consists of two scholarships of \$100 each that will be given to students of high scholastic attainment. Graduating high school seniors or college students are eligible for this award, which is administered under the direction of the Faculty Committee on Scholarships and Awards.

Teacher Education Scholarship of the California Congress of Parents and Teachers. To stimulate interest in elementary education, a \$300 scholarship has been provided by the California Congress of Parents and Teachers. This scholarship is available to senior students regularly enrolled in the general elementary teacher training program.

The Craig Scholarships. Two scholarships of \$100 each have been established by Miss Ann B. Craig, former member of the college faculty, in memory and honor of her father and mother. The Edith R. Craig Scholarship is presented to a freshman student chosen at the end of his or her freshman year at the college. The John F. Craig Memorial Scholarship is presented to a sophomore student chosen at the end of his or her sophomore year at the college. Selection of the recipients is made by the Honors and Awards Committee from those students in the respective classes who have a scholarship index of 2.0 or better and who have participated actively and commendably in at least one extra curricular activity. Other considerations being equal, preference is given to the students with the greatest financial need.

The Margaret Dickson Scholarship. This scholarship of \$100 has been established by the Fortuna Monday Club to honor Mrs. Margaret Dickson of Loleta, who has been active in promoting the scholarship program carried out for many years by the Federated Woman's Clubs of Humboldt County. This award is to be given in the field of music on the basis of a tryout in the same manner as the Federated Clubs scholarships. It provides private lessons in voice or on any instrument taught at Humboldt State College.

The T. M. Dimmick Scholarship. This is an unrestricted award of \$100 annually, given by Mr. T. M. Dimmick of Garberville.

* *Eureka Kiwanis Club Scholarships.* Several scholarships of \$100 each are offered by the Eureka Kiwanis Club to male graduates of Eureka High School for use at Humboldt State College. The club is also giving at least one scholarship of \$100 to be given to a holder of a Kiwanis Club scholarship for use in his further studies at Humboldt State College.

Eureka Rotary Club Scholarship. A scholarship of \$150 is offered annually by the Eureka Rotary Club to a graduate of Eureka High School who is in his junior or senior year at Humboldt State College. Financial need is to be given consideration.

The Fortuna Rotary Club Scholarship. This award of \$100 is granted by the Rotary Club of Fortuna to an outstanding graduate of Fortuna High School. Application for the award should be made through the Faculty Committee on Scholarships and Awards.

The Geneva Lumber Company Scholarship. A scholarship of \$100 has been established by the Geneva Lumber Company of Orick, California. It is open to new students or to students already enrolled at Humboldt State College.

The Belle W. Glaser Music Scholarship. Miss Belle Dickson, formerly Assistant Professor of Education at Humboldt State College, has established this scholarship in honor of her aunt, Mrs. Belle W. Glaser, who was a prominent San Francisco musician. The purpose of the award is to provide a fund to encourage students who have demonstrated ability and interest in the field of music to continue their studies in this field. The award (\$50) is to be used either for tuition, fees, or for private music lessons. Any student with junior standing or higher, of satisfactory scholarship and character, is eligible to receive the award. Other things being equal, preference shall then be given on the basis of financial need.

Henderson Center Kiwanis Club Scholarship. An annual award of \$50 has been provided by the Henderson Center Kiwanis Club which is to go to a worthy student at Humboldt State College who is majoring in Forestry, Wildlife Management or Fisheries.

The Humboldt County Federation of Women's Clubs Scholarships. Each year the Humboldt County Federation of Women's Clubs awards scholarships of \$100 each for private instruction provided by the College in voice or in any musical instrument taught at the College. Recipients are determined by an annual contest at the College in the fall. They must be high school graduates of good standing and must major or minor at the College in the field in which the award is made.

The Humboldt Pomona Grange Scholarship. The Humboldt Pomona Grange No. 19 has established a scholarship of \$100 yearly to be awarded to a deserving student entering Humboldt State College requiring assistance preferably, in agriculture, veterinary science, nursing, or teaching, in the order named, when available and applicable.

* The recipient is selected by the donor or his agent.

The Humboldt State College Music Scholarships. Awards of private lessons for one year valued at \$100 are made by members of the music faculty to deserving students upon the recommendation of the department. They are designated as follows:

The Leland Barlow Scholarship in voice

The L. J. Fulkerson Scholarship in piano

The number of scholarships to be awarded and the field in which they are to be given are determined annually.

The Mary Robinson Hunt Scholarship. An annual scholarship of \$100 has been established by Dr. Vernon L. Hunt, of Arcata, in memory of his mother, Mrs. Mary Robinson Hunt. Graduating high school seniors or college students are eligible to apply for this award.

The Betty Jackson Memorial Scholarship. In memory of Betty Parton Jackson, the Faculty Wives Club has established a scholarship to be awarded annually for five years, terminating in June, 1957. Other contributions to the fund have been received from Mrs. Jackson's friends in the community and from the college faculty. The scholarship (\$50) is to go to a student majoring in business administration.

The Kramer Memorial Scholarship. This award of \$200 is sponsored by the Humboldt County Medical Society in honor of Doctor Lowell G. Kramer, formerly of Fortuna, California, who lost his life in military service in World War II.

It is to be awarded in May of each year to either a premedical or pre dental student at Humboldt State College who "exhibits the qualities of a true student: industry, intelligence, a good sense of responsibility; together with an inquiring mind and the ability to do independent thinking. He should be sincere and honest, not primarily self-seeking in his aims, amiable, friendly, and sympathetic; physically strong and emotionally stable, with a good attitude toward life and living in general." The recipient will be selected by the Humboldt County Medical Society upon the recommendation of the Science Department of Humboldt State College.

The Laura P. Mahan Scholarships. Three or four scholarships carrying stipends of \$160 each are available to Humboldt State College students each year under the terms of the will of Laura P. Mahan. Two of the scholarships are in the field of art, and two are open to other college students. The awards are limited to graduates of Humboldt County high schools and to bona fide residents of Humboldt County. The amount of money accrued to the fund determines annually the number of scholarships to be awarded.

The trust fund is administered by the Bank of America in Eureka, California, and final selection of the recipients rests with the Trust Committee of the Bank of America.

* *The Mrs. Cloyce E. Martin Scholarship.* The Eureka High School Chapter of the California Scholarship Federation awards a scholarship of \$50 annually to a senior member of the group who is planning to enroll at Humboldt State College. It is named in honor of Mrs. Cloyce Martin,

* The recipient is selected by the donor or his agent.

who is the faculty adviser for the group, and served in 1952 and 1953 as state president of the California Scholarship Federation.

The Robert W. Matthews Scholarship. This is a grant of \$100 awarded annually by Robert W. Matthews of Arcata. Entering freshmen or college students in commercial or business training programs are eligible for this scholarship.

* *The Pacific Lumber Company Scholarship.* The Pacific Lumber Company of Scotia has established a \$100 scholarship open to all students or entering freshmen. Another \$100 scholarship will be awarded to a student enrolling in the Forestry-Lumbering curriculum.

The Ernest Pierson Scholarship. A scholarship of \$100 has been provided by Ernest Pierson of Eureka. It may be awarded to a high school graduate or to a student already enrolled at Humboldt State College who resides in the Eureka High School District.

The Alfred Piltz Scholarship. One or more scholarships of \$100 each are available from the proceeds of the Alfred Piltz endowment. These scholarships are available to students graduating from Humboldt County high schools who show evidence of financial need.

* *The Quota Club Scholarship.* The Quota Club of Eureka has established a scholarship of \$100, to be awarded to an upper division woman who wishes to specialize in the education of the hard-of-hearing. This award is made in conformity with the international project of the Quota Clubs, which is to serve the hard-of-hearing, and also to stimulate interest in a type of educational service where there is a definite shortage of trained personnel. Satisfactory character and scholarship are considered, but special emphasis is placed upon the student's aptitude and personal qualifications for work with handicapped children. Application for the award should be made through the office of the Registrar.

The Franz F. Roeber Estate Scholarships. Two scholarships of \$100 each were established in the will of Franz F. Roeber. They are to go to worthy and needy students attending Humboldt State College, with the preference going to students of German descent.

The Sydney L. Schmitt Memorial Scholarship. In memory of his father, Sydney L. Schmitt, Peter F. Schmitt has established a scholarship of \$100 to be awarded annually to a student majoring in the field of business administration who has genuine financial need.

The Sealbearer Scholarship. A scholarship of \$100 is awarded annually to an entering freshman student who is a life member of the California Scholarship Federation. This scholarship is donated anonymously.

The William B. Smullin Scholarship. An award of \$100 has been established to be granted annually to a worthy student who is already enrolled or who will enroll at Humboldt State College. William B. Smullin of Eureka is the donor.

* The recipient is selected by the donor or his agent.

* *The Soroptomist Club Scholarship.* A worthy girl who is a high school graduate and a resident of Humboldt County who will enroll at Humboldt State College (or who may already be enrolled) in a degree curriculum will be selected each semester to receive a \$75 scholarship offered by the Soroptomist Club of Eureka.

* *The South Fork P. T. A. Scholarship.* The Parent-Teacher Association of the South Fork Union High School awards a scholarship sufficient for fees and books to an outstanding and deserving graduate of that school who enrolls as a freshman student at Humboldt State College.

The Stuart J. Titlow Memorial Scholarship. In memory of Stuart J. Titlow, his wife, Mrs. Annie L. Titlow, and his son, Robert Titlow, of Arcata have established an annual scholarship of \$100. It is open to prospective students or to those currently enrolled at Humboldt State College.

The Thomas M. Tobin Memorial Scholarship. A scholarship in the amount of \$100 has been established by T. M. Tobin, Jr., and Ruth M. Haapala. It is to go to a worthy student from Southern Humboldt County.

The Henry Westbrook Scholarship. The Reservation Ranch of Smith River, California, has established a scholarship of \$100, open to entering freshmen or college students, preferably to a student studying agriculture.

The Woman's Auxiliary to the Humboldt County Medical Society Scholarship. To stimulate interest of capable students, to encourage intelligent planning for a career in the nursing profession, and to furnish financial assistance for a worthy student during her three-year period of hospital training, the Woman's Auxiliary to the Humboldt County Medical Society has set up an annual award varying from \$300 to \$500 to be paid in three annual installments to the hospital training school. Candidates for the award must be graduates of a Humboldt County high school and have completed two years of prenursing work in college with a grade point average of 2.0 or better. Character, personality, professional interest, and aptitude for nursing, as well as the financial status of the applicant, will all receive consideration. Final selection of the recipient will be made by the auxiliary, contingent upon admission of the winner to an approved hospital for training. If no candidate satisfactory to the auxiliary makes application, no award will be given for that specific year.

Formal application for the scholarship is to be made through the Registrar at Humboldt State College.

The Walter N. Wood Memorial Scholarship. A scholarship of \$50 has been established in memory of Walter N. Wood, instructor in instrumental music at Arcata Union High School for many years, and formerly instructor in instrumental music at Humboldt State College. The funds are contributed by high school groups and individuals in the community, with the Principal and the music groups at Arcata Union High School assuming the responsibility for its continuance. The scholarship will be

* The recipient is selected by the donor or his agent.

given to a senior at Arcata Union High School who has been outstanding in music, and who will enroll at Humboldt State College. It is expected that the recipient will include some music work in his program of studies at the college.

The Y. W. C. A. Leadership Scholarships. Several scholarships have been established by friends of the Y. W. C. A. Under the terms of the awards, the recipients will assist with projects related to the programs of the sponsoring organization in Arcata and Eureka. Assignments will provide practical opportunities to develop leadership in handling youth groups that should prove valuable to students majoring in education, recreation, or social service. Donors of the Y. W. C. A. Leadership Scholarship are Mrs. Frank G. Williams (\$100), Senator and Mrs. Arthur Way (\$100), Y-Wives (\$150).

Students may apply directly to the Y. W. C. A. or through the Faculty Committee on Scholarships and Awards. Final selection of recipients will rest with the executive secretary of the Y. W. C. A.

The Foreign Students' Assistance Fund. In the interest of fostering international good will the students of Humboldt State College have set up a limited fund to be used to provide emergency financial assistance for foreign students who are currently enrolled. The fund has been increased by donations from outside groups, and is administered by the local chapter of the California Student Teachers Association and the Associate Dean of Students in charge of guidance.

Vocational Rehabilitation. The Bureau of Vocational Rehabilitation, State Department of Education, offers its service to students who have an employment handicap resulting from physical disability of any kind. Included are vocational counseling, the payment of tuition and fees, and the provision of textbooks without charge.

MISCELLANEOUS AWARDS

Physical Education Awards. An award of \$50 will be made annually to an outstanding member of the graduating class of each high school in Humboldt and Del Norte Counties who will major or minor in physical education at Humboldt State College looking toward teaching or coaching. Recipients are to be nominated by each high school and approved by the college faculty committee on Scholarships and Awards. The bases of selection shall include the following: outstanding participation in athletics; sportsmanship; character and general attitudes; a satisfactory scholarship record; and probable ability to succeed in college.

These grants to high school seniors have been made possible for 1953-54 through the contributions of Chris Artunas and Fred Bair of Eureka, and Richard Fleisher of Scotia.

Arcata Kiwanis Club Award. The Arcata Kiwanis Club awards a \$10 prize each year to the Arcata High School graduate who has made the highest scholastic record at Humboldt during his freshman year.

The Charles R. Barnum Trust Fund for Historical Research of Humboldt County. A prize of \$100 has been provided from a trust fund by the late Charles R. Barnum of Eureka for the best essay on a

phase of the history of Humboldt County, the exact topic to be announced annually. The essays will be judged by a committee of three on the basis of originality, reliability, literary excellence, and contribution to the knowledge of the county. The essays are due on February 20th, and the prize will be awarded on March 15th. The competition is supervised by Dr. Hyman Palais, Chairman of the Division of Social Science.

Chi Sigma Epsilon Freshman Award. This award is presented each spring to the student who has made the highest scholastic record in the freshman class at Humboldt State College.

Eureka Newspapers Award in Journalism. The Eureka Newspapers annually award a total of \$25 to the student or students contributing the best writing to the *Lumberjack*.

Faculty Women's Gift. The Faculty Women's Club of the College presents a monetary gift to the graduating woman who has achieved the highest scholastic average during her four-year course at Humboldt State College.

LOAN FUNDS

Limited funds are available on a loan basis to assist deserving students. Applications should be made through the office of the Dean of Students. Usually loans are not authorized until the student has made a satisfactory record in this institution and hence new students should be prepared to pay the initial fees at the time of first registration at Humboldt State College.

There are also some loan funds not administered by the college, such as the funds maintained by the Arcata and Eureka Rotary Clubs, and the Jake Gimbel Scholarship fund. Information concerning these funds may also be obtained (unless otherwise indicated) from the Dean of Students.

Regular Loan Fund (Senior). The Regular Loan Fund was established in 1919 for the purpose of assisting senior students. The maximum loan is \$90, repayable after graduation, with interest at 4 percent beginning the first of the month following graduation.

Humboldt Associated Loan Fund (Tuition). The Humboldt Associated Loan Fund was established in 1934 for the purpose of making loans to students to cover tuition fees at the beginning of the semester, with the loan to be repaid during the semester. Interest is 6 percent from date of note.

Mrs. H. W. Jackson Loan Fund (Music). A bequest of \$500 from the estate of Mrs. H. W. Jackson was established in 1947 to provide a loan fund for deserving students studying music. The maximum is to be set by a member of the music department and approved by the administration in terms of need, total funds available, and a reasonable debt load for the student. Loans bear no interest until a date specified at the time the loan is made, after which the rate is 6 percent until paid.

Alumni Student Loan Fund. The Alumni Student Loan Fund was established in 1952 by the Alumni Association of Humboldt State College for the purpose of assisting worthy students. The maximum is to be determined by the administration in terms of need, total funds available,

and a reasonable debt load for repayment. Loans bear no interest until a date specified at the time the loan is made, after which the rate is 6 percent until paid.

C. E. McCready Loan Fund. A fund of \$100 has been established by Mr. C. E. McCready of Fortuna which is available for worthy students recommended by the dean of students.

Rotary Club Loan Funds. The Rotary Clubs of Arcata and Eureka have established loan funds available for worthy students recommended by the Dean of Students.

The Business and Professional Women's Loans. The Business and Professional Women's Club of Eureka maintains a fund from which scholarships are awarded on a loan basis to women selected by the club.

The Jake Gimbel Loan for Graduate Study. Men students at Humboldt State College who are working for the master's degree are eligible to apply for the loan of \$1,000 made available through the trust fund established by the late Jake Gimbel, and administered through the Bank of America National Trust and Savings Association, of Los Angeles. One applicant from this college may be chosen annually to compete with the candidates from other eligible colleges for the ultimate selection of the winner. The loan is repayable without interest during a 10-year period from the date of issuance. Details may be obtained from the Registrar.

CURRICULUMS AND DEGREES

GENERAL STATEMENT

INSTRUCTIONAL DIVISIONS

The courses of instruction offered at Humboldt State College are administered through six instructional division under the general supervision of the Dean of Instruction. These instructional divisions, together with the fields of study grouped under each, follow.

1. The Division of Education and Psychology
 - a. Elementary teacher education
 - b. Secondary teacher education
 - c. Administration and supervision (elementary)
 - d. Psychology
2. The Division of Fine and Applied Arts
 - a. Art
 - b. Home economics
 - c. Industrial arts
 - d. Music
 - e. Speech, drama, and radio
3. The Division of Health and Physical Education
 - a. Physical education for men and women
 - b. Health and hygiene
4. The Division of Language and Literature
 - a. English language and literature
 - b. Foreign languages and literature
 - c. Journalism
5. The Division of Natural Sciences
 - a. Biological sciences
Anthropology, bacteriology, biology, botany, physiology and anatomy,
and wildlife management and fisheries
 - b. Physical sciences
Chemistry, geology, physics
 - c. Mathematics
 - d. Engineering
6. The Division of Social Sciences
 - a. Business administration
 - b. Business education
 - c. Economics
 - d. Geography
 - e. History
 - f. Philosophy
 - g. Political science
 - h. Sociology

CURRICULUMS

The work offered by the College falls into two main categories: degree curriculums and nondegree curriculums. The degree curriculums are further classified into (a) curriculums leading to the A.B. or M.A. degrees and organized for the training of teachers in the public schools; and (b) curriculums leading to the A.B. or B.S. degrees preparing students for work in fields other than teaching.

The nondegree curriculums, which are one- or two-year lower-division programs, are of two types: (a) those which are terminal, vocational in character; (b) those which are followed by students who wish to complete their preprofessional work at this College, looking forward to completing their professional training at another institution.

I. Degree Curriculums

A. Teacher education curriculums

1. Graduate work leading to the M.A. degree with majors in:

Elementary education	Administration and supervision
Secondary curriculum or guidance	Social sciences

2. Graduate curriculums leading to the general secondary credential with majors in:

Art	Mathematics
Business education	Music
Conservation education	Physical education
English	Physical and general sciences
Language arts	Social sciences
Life and general sciences	Speech

3. Curriculums leading to the administration and supervision credential as follows:

Elementary school administration credential
 Elementary school supervision credential
 Speech supervision credential

4. Curriculums leading to the A.B. degree with the following credentials:

General elementary credential

General junior high school credential with majors in:

Art	Industrial education
Biological sciences	Mathematics
Conservation education	Music
English	Physical education
Health and hygiene	Social sciences
Home economics	Speech and dramatics

Kindergarten-primary credential

Special secondary credentials in:

Art	Music
Business education	Physical education
Home economics	Speech correction

Combinations of the foregoing credentials may be arranged.

B. Curriculums in fields other than teaching

1. Occupational curriculums leading to the A.B. or B.S. degrees with majors in:

Business administration	Speech-radio
Fisheries	Social service
Nursing	Wildlife management
Secretarial science	

2. Liberal arts curriculums leading to the A.B. degree with majors in :

Allied arts	Home economics
Art	Music
Biological sciences	Nursing
Botany	Premedical sciences
Conservation	Social sciences
Economics	Zoology
English	Group major
History	

Some of the above-listed liberal arts curriculums provide a suitable background for professional training in such fields as library science, the ministry, law, journalism, youth leadership, physical therapy, and occupational therapy. Students intending to major in one of these fields should consult their adviser with a view of selecting the appropriate program of study.

II. Nondegree Curriculums

A. Two-year curriculums

Agriculture (with emphasis on dairying)	Photography
Drafting	Recreational leadership
Lumbering	Secretarial training

B. Preprofessional curriculums preparatory for transfer to other institutions:

Agriculture	Library science
Architecture	Medicine
Dentistry	Mortuary science
Engineering	Nursing
Forestry	Optometry
Law	Pharmacy
Letters and science	Veterinary science

Other preprofessional curriculums may be arranged to meet special needs.

Students who are enrolled in preprofessional curriculums and expect to transfer to other institutions should acquaint themselves with the particular graduation requirements of the institution to which they expect to transfer. Further, they should ascertain which of the courses offered at this College will be accepted in preparation for the chosen field of study.

The requirements for the preprofessional curriculums listed above will be found under the respective divisions. These curriculums are suggestive rather than fixed since the specific course requirements of the various institutions may vary.

Since most of the students who take their lower-division preparatory work at this College transfer to the University of California at Berkeley, these lower-division curriculums in most instances are devised to meet the requirements of the University of California.

In some instances the University revises its requirements after the publication of this catalog, and the student is therefore cautioned that he should be sure to consult the latest bulletin from the University.

Students transferring to the University of California must meet (a) the entrance requirements of the University; and (b) the lower-division requirements for the specific curriculums involved.

EXPLANATION OF COURSE NUMBERS

The courses offered at Humboldt State College are designated by number as well as by title. The significance of these numbers is as follows:

- 1- 99 designate *lower-division courses*. They are designed for freshmen and sophomores, but juniors and seniors may enroll in them. They *do not give* upper-division work in any department.
- 100-199 designate *upper-division courses*. They are open only to students who have attained upper-division standing, and who have completed the lower-division work deemed preparatory by the instructional division concerned. Freshmen or sophomores are admitted to these courses only under special circumstances, and then only with the consent of the instructor.
- 200-299 designate *graduate courses*. They are open only to students who have been admitted to the graduate division.
- 300-399 designate courses in *directed teaching*. They are open only to upper division or graduate students.
- X designates *remedial courses* in the various divisions. They are open to students who are found to need special assistance in the area involved.
- Letters designate *courses usually taught in high school*, but which are offered at the College, under special conditions, to students who are found to need these courses.
- "Year" after a course title indicates that the particular course runs through both fall and spring semesters.

The lists of courses offered by each division comprise the total course offerings of the College. Not all the courses included are given each semester, nor even each year. The student should consult the schedule of classes which is published each semester for detailed information concerning current offerings.

REQUIREMENTS FOR DEGREES

THE MASTER OF ARTS DEGREE

The College is authorized to confer the master of arts degree upon qualified candidates who meet the specified requirements and who hold appropriate California teaching credentials. Certain exceptions to this requirement are recognized in the case of students from other states or nations and those planning to teach in institutions not requiring teaching credentials. All programs are administered by the Graduate Study Committee of the College and further information may be obtained from the chairman of the committee.

General Requirements

1. A minimum of 30 semester units of upper division and graduate courses must be earned beyond the bachelor's degree.
2. At least 24 units of this credit must be earned in residence at Humboldt State College.
3. Not more than six units of credit may be earned in extension, or in directed teaching, and/or as credit transferred from another accredited graduate school.
4. At least 10 semester units of strictly graduate courses must be included in the program.
5. At least two approved one-semester courses outside the field of Education must be included in the program.
6. A grade point average of B must be maintained in all work taken in the graduate program. No course with a grade below C may be applied.
7. An acceptable thesis or teaching project will be required, although at the discretion of the Graduate Study Committee, satisfactory performance on a final comprehensive examination may be substituted for this requirement.

8. All work for the degree must have been earned in the seven-year period immediately preceding the completion of the requirements.
9. Admission to candidacy for the degree shall be at the discretion of the Graduate Study Committee, and shall be achieved at least four months before completion of the requirements.

Prerequisites to admission to candidacy include a minimum grade index of 1.5 in the candidate's undergraduate major and in the upper division, together with certain tests of aptitude for graduate work which may be administered.

Course Requirements

The following outlines of course requirements have been established as a basis for evaluating qualifications of candidates for the degree. The record of each candidate will be carefully considered in the light of these requirements, and such modifications in individual programs as are recommended by the student's adviser may be permitted with the approval of the Graduate Study Committee. All programs require a minimum of 30 units beyond the bachelor's degree.

I. Elementary Education

1. Prerequisites (or their equivalents):

Educ. 113. Psychological and Social Foundations of Education	5 units
Educ. 133AB. Elementary School Curriculum	8 units
2. Required for all candidates

Educ. 224. History and Philosophy of Education	2 units
Educ. 230. Seminar in Elementary Education	2 units
Educ. 239. Advanced Elementary Curriculum	2 units
Educ. 265. Guidance in Education	2 units
Educ. 290. Thesis or acceptable project	3 units
Educ. 298. Master's Degree Seminar (Research Procedure)	2 units
Educ. 299. Special Problems in Education	2-4 units
Directed electives outside education	4-6 units
Directed electives in elementary education	6-8 units

II. Secondary Education

1. Prerequisites (or their equivalents):

Educ. 113. Psychological and Social Foundations of Education	5 units
Educ. 175. Core course in Secondary Education	5 units
2. Required for all candidates

Educ. 215. Evaluation in Education	2 units
Educ. 224. History and Philosophy of Education	2 units
Educ. 275. Seminar in Secondary Education	2 units
Educ. 298. Master's Degree Seminar	2 units
3. A Major Emphasis in either A or B as follows:
 - A. Curriculum and Methods of Instruction in Major Teaching Field

Educ. 212. Psychology of Adolescence	2 units
Educ. 290. Thesis or Teaching Project	3 units
Educ. 299. Special Problems or Field Work in Teaching Field	2-4 units
Directed electives in major teaching field	3-6 units
Directed electives	7-11 units

 (Each candidate must have at least two courses outside Education.)
 - B. Pupil Personnel and Guidance

Educ. 212. Psychology of Adolescence	2 units
Educ. 265. Guidance in Education	2 units
Educ. 290. Thesis or Teaching Project	3 units
Educ. 299. Special Problems or Field Work in Guidance	2-4 units
Directed electives	12-13 units

 (Each candidate must have at least two courses in fields other than Education.)

III. Educational Administration and Supervision**1. Prerequisite**

Appropriate teaching credential

Teaching experience (At least two years of successful teaching experience must be verified.)

2. Required for all candidates

Educ. 215. Evaluation in Education.....	2 units
Educ. 239. Advanced Elementary Curriculum.....	2 units
Educ. 265. Guidance in Education.....	2 units
Educ. 290. Thesis or approved project.....	3 units
Educ. 298. Master's Degree Seminar (Research Procedures).....	2 units
Educ. 299. Special Problems in Administration or Supervision.....	2 units
Directed electives outside education.....	4-6 units

3. Additional requirements to qualify for administration or supervision credential.
(See pages 66 and 67.)

Appropriate modifications will be made in the program for students who already have an administration or supervision credential.

IV. Social Sciences**1. Prerequisite**

Satisfactory evidence of preparation for the work proposed.

2. Suggested Program

Hist. 288A-288B. Seminar in California History (or equivalent year course)	6 units
Hist. 298. Master's Degree Seminar (Research Techniques)..... (Or acceptable equivalent in Historical Research)	2 units
Hist. 290. Thesis	3 units
Econ. 201A-201B. Development of Economic Thought (year course)	6 units
Directed electives in social sciences.....	7 units
Directed electives in education.....	6 units

THE BACHELOR OF ARTS AND THE BACHELOR OF SCIENCE DEGREES

All students who are candidates for the A.B. and B.S. degrees must comply with certain basic requirements established by the State Board of Education and the College. Additional requirements may be prescribed for a specific curriculum, but the requirements common to all degree curricula are as follows:

Units

For the A.B. degree, a minimum of 124 units is necessary for graduation. Of these, at least 40 units must be selected from upper division courses. For the B.S. degree, the minimum required is 128 units.

Residence

No student shall be graduated from the College with less than 24 semester units completed in residence, and at least two semesters in residence. Residence and credit in summer sessions may be substituted for regular session and unit requirements on a week-for-week and unit-for-unit basis. Thus, the residence requirement may be fulfilled by attendance for two semesters, or for one semester and three summer sessions, or for six summer sessions.

General Education

All degree candidates must complete a minimum of 45 semester units in general education outside of the major distributed as follows:

Social Sciences	9 units
Including the statutory requirement in United States history and constitution (see statement on page 61), and courses from two or more of these fields: economics, geography, history, political science, sociology.	
Natural Sciences	9 units
Including one life and one physical science course chosen from the fields of astronomy, botany, chemistry, geology, physics, physiology, and zoology.	
Literature, Philosophy or the Arts	6 units
(Fine and applied arts not to exceed three of the six units.)	
Health and Physical Education	4 units
Including a course in personal hygiene and safety.	
Oral and Written Expression	6 units
Psychology	3 units
Restricted Electives	8 units
Chosen from the above fields or from: family life education, mathematics or not more than six units of foreign language.	
Total	45 units

The student should consult his adviser concerning the choice of appropriate courses to be taken to fulfill the above requirements.

Majors and Minors

Each candidate for a degree must complete a major.

A *major* is a sequence of courses arranged to provide concentration in a field of special interest to the student. The student should select his major field with care, in accordance with his interests and objectives. Although it is possible to transfer from one major field to another, it is usually done at the expense of additional time and units.

The requirement for a major varies considerably, according to the curriculum chosen by the student. He should consult the pattern outlined under the several divisions as to the requirements for the major of his choice.

In many of the degree curriculums, a minor is also required. In general, minors are designed to give breadth and background. In the curriculums leading to teaching credentials they may serve the additional purpose of providing a second subject field in which the student may teach if necessary. Some combinations are better than others for transfer credit; some are better as teaching combinations. The future plans of the candidate will determine in part what is desirable to choose for minor fields.

Candidates for the general secondary credential must complete a teaching minor, which is composed of at least 20 units. Teaching minors,

which are outlined under the respective divisions, may be completed in the following fields:

Art	Journalism
Business education	Life sciences
Conservation	Mathematics
English	Music
French	Physical education
Health education	Physical sciences
Home economics	Social studies
Industrial education	Speech

All other minors (also described under each division) consist of a minimum of 12 units. These minors are available in the following fields:

Accounting	Industrial education
Art	Journalism
Biology	Mathematics
Botany	Music
Business	Physical education
Chemistry	Political science
Economics	Psychology
Education	Radio
English	Secretarial training
French	Sociology
Health and hygiene	Speech and dramatics
History	Wildlife management
Home economics	Zoology

Scholarship

A scholarship average of "C" (index of 1.0) is required for graduation with the bachelor's degree in all work taken, and in the major and minor, as well.

COURSES OF INSTRUCTION

TWO-YEAR CURRICULUMS

OCCUPATIONAL CURRICULUMS

Students who desire to pursue an intensive two-year occupational curriculum have that opportunity in several fields. These courses are designed to give a maximum of basic instruction and practical training within the limited period, thereby attempting to attain the objective of developing an acceptable degree of vocational competence.

Upon completion of a two-year curriculum with a satisfactory record, the student will be granted a certificate of proficiency. Should a student decide to revise his objective and work toward a bachelor of arts degree, arrangements can be made, in most cases, to transfer to a four-year course of study.

Detailed descriptions of the individual courses comprising the two-year curriculums appear under their respective instructional divisions elsewhere in this catalog, but the following outlines present the programs that are currently offered.

AGRICULTURE—DAIRYING

RECOMMENDED SEQUENCE

	<i>Units</i>	
	<i>Sem. 1</i>	<i>Sem. 2</i>
First Year		
Agric. 20—Introduction to the Dairy Industry.....	6	—
Agric. 30—Farm Mechanics	3	3
Agric. 1*—Soils and Pasture Management.....	—	3-6
Engl.†	3	—
Spch. I	—	3
P.E.	$\frac{1}{2}$	$\frac{1}{2}$
Electives	3	3
	15 $\frac{1}{2}$	15 $\frac{1}{2}$
Second Year		
Agric. 15—Feeds and Feeding.....	6	—
Agric. 22—The Dairy Industry.....	—	6
Agric. 21—Dairy Management	2	—
Agric. 12—Animal Diseases and Physiology.....	—	3
Pol. Sci. 51—American Constitutional Government.....	2	—
Hist. 70—History of the United States.....	—	2
B.A. 10—Accounting	3	—
P.E.	$\frac{1}{2}$	$\frac{1}{2}$
Electives	2	4
	15 $\frac{1}{2}$	15 $\frac{1}{2}$

* Wildlife students take this course, without the work-experience, for three units.

† Particular course to be determined in accord with individual needs of students.

DRAFTING

RECOMMENDED SEQUENCE

	Units	
	Sem. 1	Sem. 2
First Year		
I.E. 7A—Mechanical Drawing	2	—
I.E. 22—Engineering Drawing	—	2
Art 10—Design	—	2
Math. D—Intermediate Algebra	3	—
Math. C—Trigonometry	—	3
Engl. 1A—First Year Reading and Composition	3	—
Hist. 70—History of the United States	2	—
Pol. Sci. 51—American Constitutional Government	—	2
P.E.	$\frac{1}{2}$	$\frac{1}{2}$
Electives	5	6
	15 $\frac{1}{2}$	15 $\frac{1}{2}$
Second Year		
Art 20A-20B—Fundamentals of Drawing	3	3
Art 45—Lettering	—	3
I.E. 23—Descriptive Geometry	—	2
Engr. 1A-1B—Surveying	3	3
Engr. 24—Advanced Engineering Drawing	—	2
I.E. 10—Home Planning	2	—
Phys. 2A—General Physics Lecture	3	—
Phys. 3A—General Physics Laboratory	1	—
P.E.	$\frac{1}{2}$	$\frac{1}{2}$
Electives	3	2
	15 $\frac{1}{2}$	15 $\frac{1}{2}$

GENERAL BUSINESS (MARKETING, MERCHANDISING) CURRICULUM

Purpose: To provide the student with the information and skills which constitute a desirable background for employment in the fields of retailing, selling, and advertising, or for management of a small business enterprise.

RECOMMENDED SEQUENCE

First Semester		
Units		
B.A. 10—Secretarial Accounting	3	<i>Recommended Electives:</i> Hist. 4A—History of Western Civilization Soc. 1A—Introduction to Soc. Engl. 46A—Survey of Eng. Lit.
B.A. 20—Introduction to Business	3	
Engl. XI or 1A	3	
Hist. 70—U. S. History	2	
Elective	3	
P.E.	$\frac{1}{2}$	
	14 $\frac{1}{2}$	
Second Semester		
Units		
B.A. 2A—Typing I	2	<i>Recommended Electives:</i> Psych. 1A—General Psychology B.A. 6—Business Machines B.A. 30—Consumer Economics Geog. 5—Economic Geography
B.A. 21—Business Mathematics	3	
B.A. 26—Retail Store Management	3	
Pol. Sci. 51	2	
Elective	5	
P.E.	$\frac{1}{2}$	
	15 $\frac{1}{2}$	

Third Semester

Units

B.A. 25—Advertising	3
B.A. 34A—Marketing	3
B.A. 34B—Marketing	3
Elective	7
P.E.	$\frac{1}{2}$

16 $\frac{1}{2}$ *Recommended Electives:*

Spch. 1

B.A. 18—Business Law

B.A. 36—Product Merchandising

Econ. 1A-B—Principles of Economics

Fourth Semester

Units

B.A. 50—Salesmanship	3
*B.A. 69—Business Practice	2
B.A. 109—Business Correspondence	3
Electives	4

15 $\frac{1}{2}$ *Recommended Electives:*

B.A. 27—Small Bus. Management

B.A. 28—Advertising Copy and Layout

Psych. 2—Applied Psychology or

Psych. 33, Psychology of Adjustment

* Supervised apprenticeship in a local retail store.

FORESTRY—LUMBERING**RECOMMENDED SEQUENCE****First Year**

	Units	
	Sem. 1	Sem. 2
For.-Lmbr. 1—Introduction to the Lumber Industry	3	—
Bot. 11—Dendrology and Wood Technology	4	—
For.-Lmbr. 10—Forest Protection	3	—
Engl. 1A—First-year Reading and Composition	3	—
For.-Lmbr. 20—Forest Management	—	3
For.-Lmbr. 30—Woods Operations	—	3
For.-Lmbr. 40—Forest and Lumber Mensuration	—	2
Spch. 1—Fundamentals of Speech	—	3
Physical Education	$\frac{1}{2}$	$\frac{1}{2}$
Electives	2	4
	15$\frac{1}{2}$	15$\frac{1}{2}$

Second Year

For.-Lmbr. 50—Principles of Lumber Manufacture	4	—
Engr. 2—Surveying and Mapping	3	—
For.-Lmbr. 55—Lumber Grading	2	—
Pol. Sci. 51—American Constitutional Government	2	—
B.A. 35—Lumber Marketing	—	3
For.-Lmbr. 60—Wood Products	—	3
Hist. 70—History of the United States	—	2
Physical Education	$\frac{1}{2}$	$\frac{1}{2}$
Electives	4	7
	15$\frac{1}{2}$	15$\frac{1}{2}$

PHOTOGRAPHY

RECOMMENDED SEQUENCE

	Units	
	Sem. 1	Sem. 2
First Year		
Art 3—Art Appreciation	3	—
Art 10—Design	—	3
Art 45—Lettering	3	—
Art 50—Elementary Photography	—	3
Chem. 1A—General Inorganic Chemistry	5	—
Engl. 1A—First-year Reading and Composition	—	3
H. & H. 1—Personal Health and Safety	—	2
Social Science	3	3
P. E.—Activities	$\frac{1}{2}$	$\frac{1}{2}$
Elective	2	1
	16 $\frac{1}{2}$	15 $\frac{1}{2}$
Second Year		
Art 51—Advanced Photography	2 or 3	—
B.A. 2A—Typewriting	—	2
B.A. 14A—Accounting	3	—
Jn. 29—Press Photography	1	—
P. E.—Activities	$\frac{1}{2}$	$\frac{1}{2}$
Phys. 2A-2B—General Physics Lectures	3	3
Hist. 70—United States History	2	—
Pol. Sci. 51—American Constitutional Government	—	2
Psych. 1—General Psychology	—	3
Spch. 1—Fundamentals of Speech	—	3
Spch. 25—Dramatic Workshop—Lighting	—	2
Elective	3	—
	14 $\frac{1}{2}$	15 $\frac{1}{2}$

RECREATIONAL LEADERSHIP

A two-year course is suggested for students who would like to obtain employment in municipal recreation centers, state or national parks, summer camps, or other recreational areas, or for the training of volunteer workers in community youth projects. Certain basic courses are outlined, and the rest of the program may be made up from electives selected on the basis of the student's interests and vocational objectives.

RECOMMENDED SEQUENCE

	Units	
	Sem. 1	Sem. 2
First Year		
Engl. 1A-1B—First-year Reading and Composition	3	3
H. & H. 1—Personal Health and Safety	2	—
H. & H. 55—First Aid	—	2
P.E. 77—Recreation and Campercraft	—	2
Soc. 1A-1B—Introduction to Sociology	3	3
Electives	7	5
P.E. Activity	$\frac{1}{2}$	$\frac{1}{2}$
	15 $\frac{1}{2}$	15 $\frac{1}{2}$
Second Year		
Hist. 70—History of the United States	2	—
P.E. 31—Introductory Social Dancing	$\frac{1}{2}$	—
P.E. 33—Folk Dancing	—	$\frac{1}{2}$
P.E. 88—Club Leadership	2	—
P.E. 76—Community Recreation	—	2
Pol. Sci. 51—American Constitutional Government	—	2
Psych. 1—General Psychology	—	3
Spch. 1—Fundamentals of Speech	3	—
Electives	7	7
P.E. Activity	$\frac{1}{2}$	$\frac{1}{2}$
	15	15

Recommended electives: Art 40 (Crafts), 50 (Photography), Spch. 11 (Radio Workshop), 25 (Dramatic Workshop), Geol. 1A, Zool. 165 (Ornithology), W.M. 2 (Conservation), 5 (Techniques), Engl. 178 (Children's Literature), P. E. 194A-B (Officiating), Music Activities, Soc. 103 (Crime and Delinquency), or 106 (The Community). The student must comply with rules governing admission to upper division classes.

If a student is interested in a degree program emphasizing Recreational Leadership, a group major may be arranged. See page 167.

SECRETARIAL TRAINING

The College offers one- and two-year programs in stenographic, secretarial training, and general business (with emphasis on marketing). Students electing the two-year program must complete a minimum of 60 semester units of college work and must maintain a scholarship average of 1.0 in order to receive the two-year diploma.

Students taking the one-year course must complete a minimum of 30 semester units and maintain a scholarship average of 1.0 in order to qualify for the one-year diploma.

Training includes practice in operating the mimeograph, dictaphone, and other office machines in common use.

Attention is called to the fact that the college offers a four-year program in secretarial science which is recommended for those students who wish to obtain a more thorough training for positions as executive secretaries, office supervisors, and other positions calling for greater responsibility or specialized training. (See page 150.)

The placement of graduates is a function assumed by the Division of Social Science. Every effort is made to secure positions for current and former graduates. In recent years, the demand has far exceeded the supply.

<i>Suggested program for</i>	<i>Secretarial Training (Two-year)</i>	<i>Stenographic Training (One-year)</i>
First Year	Units	Units
B.A. 1A—Shorthand I.....	3	—
B.A. 1B—Shorthand II.....	3	3
B.A. 1C—Shorthand III.....	—	3
B.A. 2A—Typewriting I.....	2	—
B.A. 2B—Typewriting II.....	2	2
B.A. 2C—Typewriting III.....	—	2
B.A. 3—Filing.....	1	1
B.A. 4—Word Study.....	2	2
B.A. 5-6—Business Machines.....	4	4
B.A. 10—Secretarial Accounting.....	3	3
B.A. 21—Business Mathematics.....	3	3
P.A. 41—Business English.....	3	3
* B.A. 42—Penmanship.....	1	—
Engl. 1A—First-year Reading and Composition.....	3	3
P.E. Activities (Including P.E. 5 or 15).....	1	1
Electives to total.....	30	30
Second Year		
B.A. 1C—Shorthand III.....	3	—
B.A. 2C—Typewriting III.....	2	—
B.A. 18—Business Law.....	3	—
B.A. 50—Salesmanship.....	3	—
B.A. 109—Business Correspondence.....	3	—
B.A. 112—Secretarial Training.....	2	—
P.E. Activities.....	1	—
Electives to total at least.....	30	—

* Requirement may be fulfilled by examination.

TWO-YEAR GENERAL CURRICULUM

The curriculum is designed for those who desire two years of general education or cultural training beyond high school.

REQUIREMENTS

The two-year general curriculum is divided into Group A subjects, Group B subjects and Group C subjects. Group A includes the social sciences, and allied fields of philosophy and literature. Group B includes the natural sciences, mathematics and allied fields, exclusive of such professional courses as chemistry, physics, botany, and zoology. Group C includes appreciation, skill, and activity courses in art, music, English, speech, foreign language, home economics, industrial arts, secretarial science, and recreation.

All students are required to take two units in physical education, and in addition 24 units must be chosen from one group; 12 units must be chosen from each of the other two groups (total 24 units); and 12 units of free electives from lower-division subjects.

PROFESSIONAL CURRICULUMS

It is possible to arrange for many lower division preprofessional curriculums through the counseling program of the College. These programs are worked out in terms of the need of each individual student, and in consideration of the requirements of the university or college to which the student expects to transfer at the end of his one or two years of preprofessional training.

Each such student is therefore urged very early to choose the university or college to which he will transfer, to obtain a catalog of that institution, and to work with his counsellor in planning his course of study at Humboldt State College.

Curriculums for preprofessional training may be arranged in the following fields:

Agriculture	Medical technologist
Architecture	Medicine
Dental assistant	Mortuary science
Dentistry	Nursing
Engineering (lower division)	Occupational therapist
Forestry	Optometry
Laboratory technician	Physiotherapist
Law	Pharmacy
Library science	Veterinary medicine

Students interested in other lower-division preprofessional curriculums should consult the Registrar.

DIVISION OF EDUCATION AND PSYCHOLOGY

CREDENTIALS

Professional curricula have been organized under the authority of the State Board of Education leading to recommendation for the following teaching credentials:

1. *Kindergarten-Primary*, authorizing the holder to teach in any kindergarten and in grades one to three of any elementary school.

2. *General Elementary*, authorizing the holder to teach in any elementary or junior high school through the eighth grade.

3. *Junior High School*, authorizing the holder to teach in grades seven, eight, and nine of any elementary or secondary school.

4. *Special Secondary Credential*, authorizing the holder to teach a special subject in elementary and secondary schools. Humboldt State College offers special secondary credentials in art, business education, home economics, music, physical education, and speech correction.

5. *General Secondary Credential*, authorizing the holder to teach in the secondary schools and in grades seven and eight of the elementary schools.

Majors and minors for the general secondary credential are available in many fields, listed on pages 46, 52 and 53.

This credential requires the completion of a year of work after receiving the bachelor's degree.

6. *Elementary School Supervision*, authorizing supervision of elementary schools.

7. *Special Supervision*, authorizing supervision in a special subject field such as music, art, or physical education, in which the applicant holds a special secondary credential.

8. *Elementary Administration*, authorizing the administration of elementary schools.

ADMISSION TO TEACHER EDUCATION CURRICULUMS

Students seeking admission to any curriculum in teacher education must file formal application for admission by the end of the sophomore year or as soon thereafter as possible. Application forms may be secured from the office of the Chairman of the Division. A committee on credentials will study carefully the qualifications of each applicant, by means of appropriate tests, personal interviews, and other pertinent data. The record of each candidate is subject to periodic review, and failure to maintain the minimum standards prescribed for the curriculum to which

the student has been admitted may result in termination of his enrollment therein. Candidates will be accepted who have met the following standards, based on the regulations of the State Board of Education:

1. *Intelligence.* All candidates are required to make a satisfactory score on a standard college aptitude test.

2. *Scholarship.* An average of 1.0 in all lower division work will be necessary for unqualified admission to a teacher education curriculum.

3. *Type of Program Pursued.* The candidate must have completed two years of liberal arts education, as well as the courses prerequisite to the training for the type of credential sought.

4. *Professional Aptitude, Personality, and Character.* The candidate must demonstrate suitable aptitude and fitness for teaching and for adjustment to public school conditions. Evidence of this will be found in personality and character traits which are in keeping with the standards of the profession. Specific attention shall be directed to physical appearance, poise, dress, vitality, social attitude, co-operativeness, temperament, and integrity.

5. *Physical Fitness.* The candidate must comply with the standards of physical fitness required for a teaching credential.

6. *Speech and Language Usage.* Better than average proficiency in oral and written language is required.

7. *Many-sided Interest.* The candidate must demonstrate diverse and well-balanced interests. He shall be able to understand and interpret his major interest and field of study in suitable relationship to all others.

8. *Fundamentals.* All candidates are required to demonstrate proficiency in the fundamental school subjects. A satisfactory score must be made on standard tests in: arithmetic, elementary science, language usage, reading, social studies, and spelling. The student is also expected to demonstrate proficiency in handwriting.

9. *Proficiency in Major Field.* No candidate will be admitted to a secondary or junior high school curriculum without a written statement from his subject adviser verifying the candidate's ability and likelihood of teaching success in his major field.

GENERAL CREDENTIAL REQUIREMENTS

Units Required. For those credentials which may be granted concurrently with the A.B. degree, 124 units are required. If a candidate already possesses an A.B. degree, the minimum requirement is 24 units completed at this College.

United States History and Constitution. All candidates for credentials are required to pass satisfactorily a course or an examination in United States history and constitution including state and local government or to present appropriate courses in these fields from an accredited institution.

Citizenship. Only citizens of the United States may become candidates for long-term teaching credentials. Aliens who have filed their

first papers are eligible to apply for short-term credentials. Failure to complete the naturalization process within six months of the date of eligibility will result in the revocation of the credential. After an applicant has become naturalized, he may qualify for a long-term credential.

Majors and Minors. Candidates for the general elementary and the kindergarten-primary credentials will complete a major in Education and a minor in a field selected in consultation with their advisers. Candidates for the general junior high school credential are required to complete a major and a minor in subject fields taught in junior high school. Candidates for the special secondary credentials must complete a major in the special field. Completion of a minor in a high school subject field is recommended, particularly for those who plan later to complete a general secondary credential. Candidates for a general secondary credential must complete a major and a teaching minor, in subjects taught in the high school. A secondary teaching minor requires a minimum of 20 units while a secondary major requires a minimum of 36 units in a field, at least 12 of which must be in the upper division.

Division requirements may occasionally exceed these minimum standards.

Scholarship. Candidates for teaching credentials must comply with the following scholarship requirements:

1. A grade of "C" or better must be earned in each required course in Education. Students who fail to meet this requirement cannot be admitted to student teaching.

2. A grade index of 1.0 or better in all college work is required for admission to Education 133 or 175.

3. Candidates for the general secondary credential must maintain an index of 1.5 on all work taken in the upper division and the major field and 1.75 on all work taken in the graduate year.

4. The only grade given for student teaching is either "+" (satisfactory), inc. (incomplete), or "F" (failure). A grade of "incomplete" indicates that the student may be allowed an additional time in which to meet the required standards. A grade of "F" indicates that the candidate is considered to lack the requisite qualities for successful teaching. The units earned in student teaching do not figure in the calculation of the candidate's scholarship index.

COURSE REQUIREMENTS FOR CREDENTIAL CURRICULUMS

The curriculums outlined below have been developed to enable the student to meet the requirements of the college for the A.B. degree including a minimum of 45 units of general education, and at the same time to qualify the candidate for recommendation for a teaching credential. It is recommended that these curriculum be followed carefully, as they have been planned to insure the successful student a strong background of general and professional preparation for teaching. In order to meet requirements for prerequisites, courses should be taken in the year suggested whenever possible. Some courses are available only once a year or once in each two years. The student must be careful to take such courses whenever offered so as to avoid possible delay in obtaining a credential. Selection of a minor and of electives should be done in consultation with the student's adviser.

	First Year	Units	Units	Units
Engl. 1A-1B—First-year Reading and Composition	6	6	6	
H.H. 1—Personal Health and Safety	2	2	2	
Mus. 10—Musicianship	3	3	—	
Natural Science (including at least one course in biological sciences. Biol. 10A-10B is recommended)	6	6	6	
Educ. 50A—Introduction to Teaching	1	1	1	
P.E. 5 or 15—Freshman Physical Activities	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	
P.E.—Selected activity	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	
Social Science (Soc. 1A-1B or Hist. 4A-4B is recommended)	6	6	6	
Electives or minor	6	6	9	

Art 1—Art Structure.....	2	2	—
Literature or Philosophy.....	3	3	3
Mus. 60 or 65—Chorus or A Cappella Choir.....	1-2	1-2	—
Natural Science (including at least one course in physical sciences. Phys. Sci. 5A-5B is recommended).....	3-6	3-6	3-6
P.E.—Selected Activities.....	1	1	1
Psych. 1—General Psychology.....	3	3	3
Social Sciences, including:			
Geog. 5—Introduction to Economic Geography.....	3	3	—
Hist. 70—History of the United States.....	2	2	2
Pol. Sci. 51—American Constitutional Government.....	2	2	2
Spch. 1—Fundamentals of Speech.....	3	3	3
Electives or minor.....	4-8	4-8	11-14
(or major for junior high school credential)			

Educ. 113—Psychological and Social Foundations of Education	5	5	5
Educ. 133A—Elementary School Curriculum (Grades 1-4)		4	
Educ. 133B—Elementary School Curriculum (Grades 5-8)			4
Educ. 153—Audio-Visual Education	2	2	2
Educ. 190A—Elementary School Art	2	2	
Educ. 190IE—Elementary School Industrial Arts	2	2	4-5
Educ. 190M—Elementary School Music	2	2	(Choose
Educ. 190PE—Elementary School Physical Education	2	2	any two
Educ. 190S—Elementary School Science	2	2	courses)
Educ. 195—The Teaching of Secondary School Subjects (Major Fields)			2
Engl. 178—Children's Literature	3	3	3
P.E. 191—Singing Games and Folk Dances	1	1	—
Electives or minor or major	9	5	10-11

† The Coordinator of Elementary Teacher Education will assign students enrolled for the general elementary or the kindergarten-primary credentials to one of two sequences to distribute the opportunities for directed teaching equitably between the two semesters.

The student begins his professional training in the junior year. It is recommended that the courses in education be taken in the following sequence :

Third Year

Educ. 113—Psychological and Social Foundations of Education.....	5 units
Educ. 153—Audio-Visual Education	2 units
Electives, major or minor.....	23 units

Fourth Year

Educ. 175—Core Course in Secondary Education.....	5 units
Educ. 320C—Directed Teaching in the Elementary School (Major Field)---	2 units
Educ. 340A—Directed Teaching in the Secondary School (Major Field)---	3 units
Educ. 195—The Teaching of (Major Field).....	2 units
Electives, major or minor.....	18 units

Candidates for a special secondary credential are urged to secure a general credential for either elementary or secondary teaching in addition to the special credential. The requirements for the general secondary credential are for the most part a continuation of the work done for the special credential. A flexible program can be arranged to permit the candidate to qualify for a general elementary credential in addition to the special secondary. Information on this program may be secured from the office of the chairman of the division.

GENERAL SECONDARY CREDENTIALS

The program for this credential must provide a broad, cultural background, plus professional preparation for effective secondary school teaching. Since this is a part of a graduate program the requirements are somewhat more exacting than for certain other credentials. They are summarized below.

Summary of General Requirements

1. Possession of an approved bachelor's degree from a recognized college or university with a scholarship average of 1.5 for all work taken in the upper division and in the major field. Formal application for graduate standing must be made in the Office of the Registrar.

2. Fulfillment of the requirement in United States history and Constitution.

3. Formal admission to the curriculum in secondary teacher education. Application should be made at the end of the sophomore year. Students who transfer to Humboldt State College during their junior year or later should apply during their first semester of residence. Candidacy is subject to continuous review until the credential is earned.

4. Completion of a graduate year of two semesters or the equivalent (upper-division or graduate work), with at least 30 units of work beyond the bachelor's degree with a grade point average of 1.75 or better, including at least six units in professional courses in Education and six units in subjects commonly taught in the junior or senior high school.

5. Completion of a teaching major with at least 36 units of lower, upper-division, and graduate work, at least 12 in the upper-division.

6. Completion of a teaching minor with a minimum of 20 units.

7. Completion of at least 40 units of general education courses, including at least six units from each of the following fields: science and mathematics, practical and fine arts, social studies, English and speech.

8. Completion of 24 units in courses in Education with a grade of "C" or better, at least six of which must be taken in the graduate year, and including six units of directed teaching in the major and minor fields.

9. Completion of at least 24 units of work in residence at Humboldt State College, including at least 15 of the 30 required in the fifth year.

Detailed requirements are given under the appropriate instructional divisions as indicated above. It is recommended that the courses in Education be taken in the following sequence:

Third Year

Educ. 113—Psychological and Social Foundations of Education.....	5 units
Educ. 153—Audio-Visual Education	2 units
Electives or major or minor.....	23 units

Fourth Year

Educ. 175—Core Course in Secondary Education.....	5 units
Educ. 195—The Teaching of Secondary School Subjects (Major field).....	2 units
Completion of Pre-secondary requirements and teaching minor.....	23 units

Fifth Year

Educ. 265—Guidance in Education.....	2 units
Educ. 275—Seminar in Secondary Education.....	2 units
Educ. 340A-340B—Directed Teaching	6 units
Upper Division or Graduate courses in teaching fields.....	6 units
Major, minor, or electives.....	14 units
Total	30 units

Students planning to earn a master's degree in combination with the general secondary credential will be required to take the additional graduate courses in Education prescribed on page 50.

ADMINISTRATION AND SUPERVISION CURRICULUMS

An elementary school administration credential is required for the position of principal of a school of more than five teachers. A supervisor devoting more than half-time to supervision of instruction is required to have an elementary school supervision credential.

General requirements for these two credentials are the possession of a valid general elementary credential, and two years of successful teaching experience in the elementary school.

For the elementary school administration credential, it is necessary to complete 30 semester units of upper-division or graduate work in addition to the holding of the general elementary credential, or training which an institution approved or accredited to recommend for the elementary school administration credential certifies as fulfilling institutional requirements for a full year of work in addition to the holding of the general elementary credential.

These curriculums are essentially for graduate students, but upper-division students already admitted to them may take the specified graduate courses for upper-division credit. All such arrangements must carry the approval of the division chairman.

For the elementary school supervision credential, the requirement is 24 semester units of upper-division or graduate work in addition to the holding of the general elementary credential.

Course requirements for these credentials are as follows:

	<i>Administration</i>	<i>Supervision</i>
Educ. 240A—Administration of Elementary Schools-----	2	2
Educ. 140B—Field Problems in Administration-----	2	—
Educ. 241A—Supervision of Instruction-----	2	2
Educ. 141B—Field Problems in Supervision-----	—	2
Educ. 239—Advanced Curriculum Construction-----	2	2
Educ. 215—Measurements in Education-----	2	2
Educ. 225—The Public School System-----	2	—
Educ. 245—School Finance-----	2	—
Educ. 248—Legal Aspects of Education-----	2	—
Educ. 265—Pupil Personnel and Guidance-----	2	2
Electives chosen to round out the student's professional and general education, minimum of-----	12	12
Minimum total-----	30	24

Residence Requirement. One-half of the work for these credentials must have been taken at Humboldt State College, and at least 12 units in residence here.

The special supervision credential may only be granted to holders of special secondary credentials in a given field. See the chairman of the division for requirements.

REQUIREMENTS FOR THE A.B. WITH A MAJOR IN EDUCATION

Completion of the curriculum for a general elementary or a kindergarten-primary credential automatically includes a major in elementary education. Requirements for this curriculum are outlined on pp. 63-64. Candidates for a junior high or a secondary credential will not ordinarily take a major in Education, as they must complete a major in a subject field.

Students who have special need for a major in Education without a teaching credential should arrange the details of their program with the chairman of the Division of Education and Psychology. In general, such a major would consist of a minimum of 24 units of upper-division work in Education, with an emphasis on either the elementary or the secondary level. General requirements for this major are as follows:

Elementary Emphasis

Educ. 113—Psychological and Social Foundations of Education (or the equivalent)-----	5 units
Educ. 133A or 133B—Elementary School Curriculum (or the equivalent)-----	4 units
Directed electives in Education-----	15 units
Total-----	24 units

Secondary Emphasis

Educ. 113—Psychological and Social Foundations of Education (or the equivalent)-----	5 units
Educ. 175—Core course in Secondary Education (or the equivalent)-----	5 units
Directed electives in Education-----	14 units
Total-----	24 units

Candidates for a general secondary credential who elect to submit two teaching minors and a major in Education in lieu of the customary pattern must complete a major of at least 36 units in Education, a part of which may be done in the graduate year. In addition to the required courses in Education for the secondary credential, the major would include directed electives to bring the total to a minimum of 36 units.

DESCRIPTION OF COURSES

Lower Division

50A. Introduction to Teaching 1 unit

The student is helped to determine, early in his college career, whether or not he should pursue the teacher education curriculum. This is accomplished by acquainting the student with the various aspects of education as a profession, and providing many opportunities for observing elementary school children.

Two one-hour class periods per week plus special assignments.

50B. Introduction to Teaching 1-2 units

Opportunities are provided the student to keep in touch with children during the lower division years to help him reach a decision as to whether or not he desires to be a teacher. Observation and participation in classroom activities under the direction of a supervising teacher is the usual procedure.

Three hours per week per unit.

Prerequisite: Education 50A or consent of the instructor.

Upper Division

104. Principles of Elementary Education 2 units

Principles guiding the various aspects of good teaching are developed consistent with current educational thought. Students will be given opportunities to apply these principles to practical situations.

Two one-hour periods per week.

* 113. Psychological and Social Foundations of Education 5 units

A unified approach to the role of education in society, the learner's physical, intellectual and emotional development, his learning processes, and his interaction with other individuals and groups. Includes case studies, observation of teaching, and participation in school situations.

Five one-hour periods per week.

Prerequisite: Psychology 1 and completion of 60 units.

132. Observation and Participation 1-2 units

An opportunity for upper division students to obtain a better understanding of teaching through supervised participation in classroom situations.

This course is not applicable to the requirement in directed teaching.

From three to six hours per week, depending upon units to be earned.

Prerequisite: Consent of the instructor.

133A-133B. Elementary School Curriculum 8 units

133A—Lower grades.

133B—Upper grades.

A comprehensive overview of teaching in the elementary school. It covers such topics as courses of study; units of work; methods; materials; discipline, etc.

The time spent will be approximately equivalent to six hours a week of class work with four hours of observation and participation in classroom procedure.

Prerequisite: Education 113 and clear admission to the curriculum in elementary teacher education.

* This course fulfills specific requirements for Educational Psychology, Child Growth and Development, and Educational Sociology.

137. Rural Education**2 units**

A course designed to develop an understanding of the place of the school in the life of rural communities, ranging from the open country to small cities at the heart of rural areas. Special emphasis on school organization, records, and legal and professional relationships affecting the rural teacher.

Two one-hour periods per week.

140B. Field Problems in Administration**2 units**

Directed field work on a selected problem in school administration, culminating in a formal written report.

141B. Field Problems in Supervision**2 units**

Directed field work on a selected problem in school supervision, culminating in a formal written report.

153. Audio-Visual Education**2 units**

A study of the vast array of educational resource materials available to teachers. Techniques of preparation, selection, use, and evaluation of materials. Opportunities provided for developing skill in care and operation of standard equipment.

175. Core Course in Secondary Education**5 units**

A study of the legal and professional obligations of the secondary school teacher; the principles, practices, and philosophy of secondary education; the secondary school curriculum; the methods used in directing the learning situation, classroom organization and management. Observation of secondary schools and participation in school activities will be required.

Prerequisite: Education 113 and clear admission to a curriculum in secondary teacher education.

Five one-hour periods per week.

190. The Teaching of Elementary School Subjects**Each course 2 Units**

A series of courses dealing with the teaching of special subjects taught in the elementary school. Each course will emphasize sources and utilization of materials at various grade levels. Observation and experience in preparing teaching materials will be included.

These courses should be taken prior to directed teaching, and include the following:

Educ. 190A.—Elementary School Art

Educ. 190H.E.—Elementary School Home Economics

Educ. 190I.E.—Elementary School Industrial Arts

Educ. 190M.—Elementary School Music

Educ. 190P.E.—Elementary School Physical Education

Educ. 190S.—Elementary School Science

192A-192B. Kindergarten Methods and Materials**2-2 units**

The nature and purpose of the kindergarten and preparation and arrangement of facilities, including the construction of simple playhouse furniture and floor toys; the basic methods and skills involved in conducting kindergarten, including art, music, science, and cooking activities. Observation and participation in kindergarten activities.

Prerequisite: Education 113 and clear admission to the curriculum in kindergarten-primary education.

Two one-hour periods per week.

195. The Teaching of Secondary School Subjects**Each course 2 units**

Professional courses in the teaching of the major and minor fields at the secondary level. Each course deals with the objectives, materials, and special procedures involved in teaching that field. Observation and experience in preparing teaching materials will be included.

These courses will be taken prior to or concurrently with student teaching.

The numbers and titles of these courses, to be offered as needed, are:

- Educ. 195A.—The Teaching of Art
- Educ. 195B.—The Teaching of Business Education
- Educ. 195E.—The Teaching of English
- Educ. 195H.E.—The Teaching of Home Economics
- Educ. 195I.E.—The Teaching of Industrial Arts
- Educ. 195M.—The Teaching of Music
- Educ. 195Ma.—The Teaching of Mathematics
- Educ. 195S.—The Teaching of Science
- Educ. 195SS.—The Teaching of Social Studies
- Educ. 195Sp.—The Teaching of Speech
- Educ. 195P.E.—The Teaching of Physical Education

199. Special Problems

1-2 units

Research in education to be carried on under the direction of the College.

Graduate Division

212. Psychology of Adolescence

2 units

(See Psych. 212, page 74)

215. Evaluation of Learning

2 units

The selection, use, and interpretation of formal and informal methods of evaluating learning; use of standard statistical procedures in the interpretation of results; and practice in administering evaluation instruments.

Two one-hour periods per week.

224. History and Philosophy of Education

2 units

The development of the major theories of education, with their contributions and applications to modern educational procedures. The student is afforded opportunities to evaluate critically the contributions of the past in developing an understanding of education in a democracy.

Two one-hour periods per week.

225. The Public School System

2 units

The Federal Government in education; administration of state systems of public education and relationship to intermediate units and local school districts.

230. Seminar in Elementary Education

2 units

An advanced course in elementary education, dealing with the findings of modern educational research relative to current issues in curriculum development and teaching method.

Prerequisite: Teaching experience or consent of the instructor.

239. Advanced Curriculum Construction

2 units

A study of the structure and organization of the school curriculum from the standpoint of the administrator and supervisor. An analysis of current trends in education and a study of significant investigations and their influence upon the school curriculum. Guidance in planning curriculum materials for local use.

240A. Administration of Elementary Schools

2 units

The responsibilities of the principal of the elementary school with reference to public relations, personnel, instruction, finance, and housing. The work of the principal is shown in contrast with that of the superintendent.

241A. Supervision of Instruction

2 units

A course designed to develop the concept of supervision as democratic and cooperative educational leadership, stressing the use of scientific principles in the organization of a supervisory program and its evaluation.

245. School Finance

2 units

Principles of sound financial administration of a school system; sources of school funds, with special reference to the California system of school finance; sound budget procedures; school accounting; federal aid for education.

- 248. Legal and Professional Aspects of Education** **2 units**
Legal principles of education as interpreted by the federal and state courts, with special reference to the Education Code of California.
- 265. Guidance in Education** **2 units**
Advanced study of the principles involved in assisting the student in the formulation and acceptance of adequate personal, educational, and vocational objectives; a critical study of the bases of individual differences and of appropriate educational adjustments; organization and use of cumulative personnel data in guidance procedures.
- 275. Seminar in Secondary Education** **2 units**
An advanced course in secondary education dealing with the problems of teaching in and administering the secondary school; recent reports of national professional groups; and newly developed research in this field.
Prerequisites: Graduate standing and Education 113 and 175 or their equivalents.
Two one-hour periods per week.
- 290. Master of Arts Thesis** **3 units**
Guided investigation of a problem of educational significance culminating in a formal report written in compliance with standards established by the College.
- 298. Master's Degree Seminar** **2 units**
A seminar organized to deal with the problems arising from the initiation of research by candidates for the master of arts degree. A study of procedures in educational research, types of problems amenable to experimentation, obstacles frequently encountered, and pitfalls that exist.
- 299. Special Problems** **1-2 units**
Independent graduate level research on special problems. Particularly adapted to experienced teachers. A maximum of six units may be earned in any combination of Education 299 and 199.

STUDENT TEACHING

Student teaching is one of the most important stages in the preparation of a teacher. It provides preservice experience in organizing and managing classroom situations, directing and appraising learning activities, keeping school records, and participating in the community activities of the school. Each student is urged to take Educ. 50B and Educ. 132 as additional preparation for student teaching.

The work of the student teacher is carried on through the stages of observation, participation, and responsible teaching under the guidance of carefully selected supervising teachers and supervisors. Most of the student teaching at the elementary levels is done in the College Elementary School supplemented by cooperative arrangements with secondary schools in the college neighborhood making possible a wide variety of outstanding teaching situations at this level.

All students will be expected to spend at least three hours per week throughout a semester for each unit of credit in directed teaching. A part of this time will be devoted to preparation of teaching materials and to conferences with supervisors.

This work involves professional responsibilities that must be met promptly and regularly, and students are not expected to participate in extracurricular activities or register for course work that will in any way interfere with their directed teaching.

Admission to Student Teaching

1. During the semester preceding the student's registration for student teaching, he should file an application for an assignment in the office of the Coordinator of Secondary Teacher Education (for Education 340A-340B), or in the office of the Coordinator of Elementary Teacher Education (for all elementary assignments).

2. Applicants shall not be deemed eligible for assignment to directed teaching unless they have met the stated prerequisite course requirements and have maintained satisfactorily the standards prescribed for admission to teacher education curriculums. A grade of "C" or better in each required course in Education is prerequisite to any student teaching assignment.^{†*}

†* **320A-320B. Student Teaching in the Elementary School** **5-5 units**

Students teach under supervision in an elementary school for one semester for the general elementary credential. Taken during the same semester, each half requiring nine weeks and carrying five units of credit.

320A—Lower Grades (Prerequisite: 133A)

320B—Upper Grades (Prerequisite: 133B)

* **320C. Student Teaching in the Elementary School (Special Fields)** **1-4 units**

Student teaching at the elementary level for candidates for the special secondary credentials in their respective fields and for other students needing special assignments in directed teaching. Credit is allowed at the rate of one unit for three hours of participation per week. The usual assignment is for two units of credit.

Prerequisite: Education 113 and appropriate elementary methods courses, and consent of the Director.

* **321. Student Teaching in the Kindergartens** **5 units**

Students teach under supervision in the kindergarten 15 hours per week for one semester. This time is devoted to conferences, preparation of materials, and teaching.

Prerequisite: Education 192A-B, and satisfactory skill in piano.

* **340A-340B. Student Teaching in the Secondary School** **3-3 units**

Each student is assigned to a supervising teacher in a cooperating secondary school, where he will gradually assume responsibility for two teaching assignments in his major and minor fields, together with other school activities.

Candidates for the special secondary credential in business education may register for 340A for four units.

Five hours of teaching per week for a semester, for each assignment.

Prerequisite: Education 175 and 195.

350. College Teaching in Special Fields **2 units**

Students assist in college classes under the supervision of the regular instructors in these courses. May not be substituted for other directed teaching to fulfill requirements for recommendation for credentials.

Prerequisite: Education 320C or 340A and recommendation of the Chairman of the Division.

360. Advanced Teaching **2 units**

An opportunity for students to do advanced teaching, which may include work with special subjects or experimentation with methods of teaching.

Prerequisite: Prior credit in directed teaching or teaching experience.

* See page 62.

† See scholarship requirements, page 62.

PSYCHOLOGY**Requirements for***Minor in Psychology*

Lower division Psych. 1 and 2 or 33-----	6 units
Upper division -----	6 units
Total units required-----	12 units

PSYCHOLOGY**Lower Division****X. Reading Study Service 1 unit**

A basic course in the fundamentals of reading. Designed to permit students to increase both their rate and comprehension ability in reading. Students desiring to improve their reading ability or students planning to teach reading in the junior or senior high schools may benefit from this developmental reading program. A maximum of two units may be applied toward degree requirements.

Two one-hour periods per week.

1. General Psychology 3 units

An introduction to the study of human behavior, emphasizing the significance of maturation, learning, motivation, and individual differences as they evolve in personality.

Three one-hour periods per week.

2. Applied Psychology 3 units

Survey of the areas in which the general principles of psychology are applied, such as medicine, law, advertising, salesmanship, religion, business and personal relations.

Prerequisite: Psychology 1.

Three one-hour periods per week.

33. Psychology of Adjustment 3 units

Mental hygiene and personality development particularly appropriate for college students. Foundations of behavior, adjustments to frustration, deviations from normal behavior, measurement of personality, and problems of personal adjustment will be investigated. Attempts will be made through group therapy to help students ameliorate some of their own personality difficulties.

Three one-hour periods per week.

40. Statistics 3 units

See Economics 40.

Upper Division**105. Social Psychology 3 units**

The relationship between social organizations and the normative personality attributes of the members of society. The problems of society growing out of ethnic, racial, class, sex, and age differences are discussed.

Three one-hour periods per week.

113. Psychological and Social Foundations of Education 5 units

See Education 113.

153. Psychology of Personnel Management 3 units

See Business Administration 153.

199. Special Problems 1-2 units

Prerequisite: At least six units upper division psychology.

Graduate Division

Prerequisite: Graduate standing and adequate preparation in psychology.

212. Psychology of Adolescence**2 units**

A study of the physical, mental, social and emotional adjustment of the adolescent; ways of diagnosing personality development in relation to his educational and social needs; case method technique for investigating adolescent behavior.

Two one-hour periods per week.

THE DIVISION OF FINE AND APPLIED ARTS

Art
Home Economics
Industrial Education

Music
Speech, Drama, and
Radio

Objectives

The objectives of the Division of Fine and Applied Arts are to provide:

1. An opportunity for the development of the powers and interests of the individual and a "general education" background in the field of the arts, especially for prospective teachers.
2. Curricula leading to:
 - a. General secondary credential with majors in art, home economics, language arts, and speech, enabling the student to teach in the secondary schools of the State.
 - b. The A.B. degree with special secondary credentials in art, home economics, music, and speech correction, allowing the holder to teach the special subject in the public schools of the State.
 - c. The A.B. degree with liberal arts majors in art, home economics, music, speech, and allied arts (a group major), for the student interested in further specialized work, or for personal or vocational objectives.
 - d. A.B. degree with junior high school majors in art, home economics, industrial education, music, speech (including drama and radio).
3. Minors in art, home economics, industrial education, music, speech, drama, and radio.
4. Terminal courses in drafting and photography, which are vocational in character.
5. Courses for preprofessional students including partial fulfillment of the requirements for the special secondary credential in industrial education.

REQUIREMENTS FOR THE A.B. DEGREE IN ALLIED ARTS

This curriculum is a group major, developed through the cooperation of the entire division of fine and applied arts to provide a flexible pattern for a broadly cultural program that will contribute toward the intelligent enrichment of everyday life.

Lower Division

Engl. 1A and Spch. 1	6 units
H. & H. 1	2 units
Literature, philosophy or the arts	6 units
(Fine and applied arts not to exceed three of the six)	
Natural sciences (see page 52)	9 units
Physical activities	2 units
Psychology 1	3 units
Social sciences (page 52)	9 units
(Including fulfillment of United States history and constitution requirement)	
Restricted electives (see page 52)	8 units
Lower division prerequisites in the three fields of the student's choice for major emphasis.	

Upper Division

Thirty-six units in three fields with not less than six nor more than 18 in any one field. Sufficient work must be taken in one field to meet the minimum requirements of the State for a major (see page 52).

Minimum upper division required.....	40 units
Total units required.....	124 units

Scholarship requirement: 1.0 average in the major in addition to the requirement of a 1.0 average in all work undertaken.

ART

<i>Requirements for the A.B. Degree With Major in Art</i>	<i>General</i>	<i>Special</i>	<i>Liberal Arts *</i>
	<i>Secondary Credential</i>	<i>Secondary Credential</i>	<i>(Without a Teaching Credential)</i>
Lower Division			
	<i>Units</i>	<i>Units</i>	<i>Units</i>
Major:			
Art 2—Art History and Appreciation.....	3	3	3
Art 10—Design.....	3	3	3
Art 20A—Fundamentals of Drawing or 21A—Figure Drawing.....	3	3	3
Art 25—Color.....	3	3	3
Art 27A—Water Color Painting or 28A—Oil Painting.....	3	3	3
Art 40 or 41—Crafts.....	3	3	3
Art 45—Lettering.....	3	3	3
General Education: (To be fulfilled in addition to all requirements for the major)			
Engl. 1A—First-year Reading and Composition.....	3	3	3
H.H. 1—Personal Health and Safety.....	2	2	2
Literature, Philosophy or Arts.....	6	6	6
(Fine and applied arts not to exceed three of the six)			
Natural Science.....	9	9	9
(Including one physical and one biological science)			
Physical Education activities.....	2	2	2
Psych. 1—General Psychology.....	3	3	3
Social Sciences (See page 52).....	9	9	9
(Including fulfillment of requirement in United States history and constitution. See page 52.)			
Spch. 1—Fundamentals of Speech.....	3	3	3
Restricted Electives.....	8	8	8
(Chosen from the above General Education fields or from mathematics, family life educa- tion, or not more than six units of foreign language.)			
Other Requirements:			
Educ. 50A—Introduction to Education.....	1	1	—
Completion of lower division requirements for a minor.....	6-20 †	—	—

* The student who expects to transfer to another institution for upper division work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

† See pages 52-53. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in art, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

Upper Division

Requirements for the A.B. Degree With Major in Art	General	Special	Liberal Arts *
	Secondary Credential	Secondary Credential	(Without a Teaching Credential)
Major:	Units	Units	Units
Art 103—Advanced Appreciation	3	3	3
Upper Division Art Electives	3	3	15
†Art 120—Advanced Drawing or			
Art 121—Advanced Figure Drawing	3	3	—
Art 123—Advanced Landscape Drawing	3	3	—
†Art 127—Advanced Water Color or			
Art 128—Advanced Oil Painting	3	3	—
†Art 140—Advanced Crafts or			
Art 141—Advanced Crafts	3	3	—
Other Requirements:			
Educ. 113—Psychological and Social Founda- tions of Education	5	5	—
Educ. 153—Audio-Visual Education	2	2	—
Educ. 175—Core Course in Secondary Educa- tion	5	5	—
Educ. 190A—Elementary School Art	—	2	—
Educ. 195A—The Teaching of Art	2	2	—
Educ. 320C—Directed Teaching—Elementary School Art	—	2	—
Educ. 340A—Directed Teaching—Secondary School Art	—	3	—
Completion of upper division art requirements for a minor	0-6‡	‡	‡
Electives to total	124	124	124
Total upper division required	40	40	40
Scholarship Requirements			
In all work taken	1.00	1.00	1.00
In major	1.00	1.00	1.00
In minor	1.00	—	1.00
In each education course taken	1.00	1.00	
For admission to Graduate Division:			
In major	1.5		
In all upper division work taken	1.5		
Graduate Year (General Secondary Only)			
Graduate course in art	3		
Educ. 265—Guidance in Education	2		
Educ. 275—Seminar in Secondary Education	2		
Educ. 340A-340B—Directed Teaching in the Secondary School	6		
Elective in secondary subject field	3		
Major, minor, or electives (upper division or graduate courses) to total	30		
Scholarship requirement (all work in graduate year)	1.75		

* The student who expects to transfer to another institution for upper division work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

† The student must study in the area not covered in his lower division course. For example, if he has taken Art 20A in the lower division, he should take Art 121 in the upper division.

‡ See pages 52-53. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in art, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

REQUIREMENTS

<i>Junior High School Major</i>	<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
12 units of lower division art	6 units of lower division art	Drawing or painting— 3 units
12 units of upper division art (To be selected in consultation with the instructor)	6 units of upper division art	Plus courses approved by the art faculty— 18 units (At least 6 units must be in upper division)
Total units required 24 units	12 units	21 units

Additional requirements for the junior high school credential are given in detail on pages 63-64.

A liberal arts group major which includes art may be arranged in consultation with the student's adviser and the Registrar's office. See page 167.

DESCRIPTION OF COURSES

Lower Division

1. Art Structure 2 units

With specific exploratory problems in the visual arts, this course is designed primarily for elementary credential candidates. Art majors are not eligible.

Two one-hour periods per week.

2. Art History and Appreciation 3 units

A historical study of the development of art from prehistorical times to the Renaissance.

Three one-hour lectures per week.

3. Art Appreciation 3 units

A course in art appreciation beginning in the 18th century and extending into contemporary times. The space arts are correlated with the other arts by means of slide lectures and related reading.

Three one-hour lectures per week.

10. Design 3 units

A study of the elements of design and their applications to the commercial and fine art fields.

Two one-hour lectures and one two-hour activity period per week.

20A-20B. Fundamentals of Drawing 3-3 units

Training in the fundamentals of drawing: form, space, organization and composition. Stress is placed on various drawing materials and techniques.

Two one-hour lectures and one two-hour activity period per week.

21A-21B. Figure Drawing 3-3 units

The study of form and composition from the human figure.

Two one-hour lectures and one two-hour activity period per week.

22. Nature Drawing 1 unit

Precision drawing in varied media from objects in nature. Adapted to the needs of botany, premedical and other science students.

One three-hour laboratory per week.

23A-23B. Landscape Drawing 3-3 units

The study of form and composition from landscape, including a study of perspective.

Two one-hour lectures and one two-hour activity period per week.

25. Color 3 units

An analysis and use of the phenomena of pigmentary colors. This course is designed to prepare the student for further work in painting, design, interior decoration, and dress design.

Two one-hour lectures and one two-hour activity period per week.

27A-27B. Water-color Painting 3-3 units

The study of water color painting and methods through practical experiments by means of simple painting problems with a view to preparing the student for advanced work in painting.

Two one-hour lectures and one two-hour activity period per week.

28A-28B. Oil Painting 3-3 units

The study of oil painting and methods through practical experiments by means of simple painting problems with a view to preparing the student for advanced work in painting.

Two one-hour lectures and one two-hour activity period per week.

*** 30. Art Anatomy 3 units**

Analysis of the skeletal and muscular structure of the human figure in terms of action, form, and methods of representation with a view to preparing the student for advanced drawing, painting, and sculpture.

Three one-hour lecture periods per week.

*** 32. Sculpture 3 units**

The study of sculpture and methods through practical experiments by means of simple sculpture problems. Work will be executed in wood, cement, clay, plaster, and other materials.

Prerequisite: Any two of the following: Art 10, 20, 21, 23, 25, 27, 28, or 30.

Two one-hour lectures and one two-hour activity period per week.

40. Crafts 3 units

Introduction to craft methods through problems in leather, book binding, and other projects. Course content is adapted to the needs of the class.

One-hour lecture and three hours laboratory per week.

41. Crafts 3 units

Introduction to craft media and methods through problems in block printing, silk screen, and stencilling.

Prerequisite: Any one of the following courses: Art 10, 20, 21, 23, 25, 27, 28, or 45.

Two one-hour lectures and one two-hour activity period per week.

48. Ceramics 3 units
(See I.E. 5)

45. Lettering 3 units

Practice in the use of lettering tools, the study of basic alphabets, and an introduction to the principles of advertising layout.

Two one-hour lectures and one two-hour activity period per week.

50. Elementary Photography 3 units

Lectures on the optical principles, the chemistry of printing and developing, the technique of exposure. Laboratory work includes practice in dark-room techniques.

Two one-hour lectures and one three-hour laboratory period per week.

51. Advanced Photography 2 or 3 units

Qualified students undertake work along various specialized lines.

Prerequisite: Art 50 and consent of the instructor.

Hours to be arranged.

* Given if sufficient demand.

Upper Division

- 103. Advanced Appreciation** **3 units**
 A course in art appreciation beginning in the 18th Century and extending into contemporary times. The space arts are correlated with the other arts by means of slide lectures, and related reading. Students who are not majoring in art may take the course without its prerequisites, either as Art 3 or as Art 103.
 Two one-hour lectures and one two-hour activity period per week.
- *110. Advanced Design** **3 units**
 An advanced study of the elements of design, including problems applied to pottery, textile design, painting, etc.
 Prerequisite: Art 10.
 Two one-hour lectures and one two-hour activity period per week.
- 120A-120B. Advanced Drawing** **3-3 units**
 Continuation of the study of form and composition in still life, figure, and landscape.
 Prerequisite: Any one of the following courses: Art 20, 21, 22, 23.
 Two one-hour lectures and one two-hour activity period per week.
- 121A-121B. Advanced Figure Drawing** **3-3 units**
 Continuation of the study of figure construction.
 Prerequisite: Any one of the following courses: Art 20, 21, 22, 23.
 Two one-hour lectures and one two-hour activity period per week.
- 122. Advanced Nature Drawing** **1 unit**
 An advanced study of nature drawing.
 Prerequisite: Consent of the instructor.
 One three-hour laboratory per week.
- 123A-123B. Advanced Landscape Drawing** **3-3 units**
 Continuation of the study of landscape composition.
 Prerequisite: Any one of the following courses: Art 20, 21, 22, 23.
 Two one-hour lectures and one two-hour activity period per week.
- 127A-127B. Advanced Water-color Painting** **3-3 units**
 Advanced water color painting including problems in still-life, landscape, and figure.
 Prerequisite: Art 27 or 28.
 Two one-hour lectures and one two-hour activity period per week.
- 128A-128B. Advanced Oil Painting** **3-3 units**
 Advanced oil painting including problems in still-life, landscape, and figure.
 Prerequisite: Art 27 or 28.
 Two one-hour lectures and one two-hour activity period per week.
- *132. Advanced Sculpture** **3 units**
 Prerequisite: Art 32 or consent of the instructor.
 Two one-hour lectures and one two-hour activity period per week.
- 140. Advanced Crafts** **3 units**
 Prerequisites: Art 10 and 40.
 Two one-hour lectures and one two-hour activity period per week.
- 141. Advanced Crafts** **3 units**
 Prerequisites: Art 10 and 41.
 Two one-hour lectures and one two-hour activity period per week.
- 145. Advanced Lettering** **3 units**
 A study of techniques and methods used in showcard writing and fine lettering for reproduction. Course problems include layouts in color with illustrations.
 Prerequisites: Art 10, 20A or 21A, and 45.
 Two one-hour lectures and one two-hour activity period per week.

* Given if sufficient demand.

- | | |
|---|-----------|
| 148. Ceramics | 2 units |
| See I. E. 105. | |
| 180. Art Workshop | 1-3 units |
| Work along individual lines, with the consent of the instructor in the field. | |
| Three to nine hours laboratory per week. | |
| 195. The Teaching of Art (Secondary) | 2 units |
| (See Education 195A.) | |
| Graduate Division | |
| 220. Drawing | 3 units |
| Advanced study of individual problems in various media, a study of form and composition in still-life, figure, and landscape. | |
| Two one-hour lectures and one two-hour activity period per week. | |
| 227. Painting | 3 units |
| The student will work in the paint medium of his own choosing, under the supervision and criticism of the instructor. | |
| Two one-hour lectures and one two-hour activity period per week. | |
| 240. Crafts | 3 units |
| Individual study of problems in various craft media. | |
| Two one-hour lectures and one two-hour activity period per week. | |
| 245. Lettering | 3 units |
| Special problems in lettering layout and advertising design. | |
| Two one-hour lectures and one two-hour activity period per week. | |
| 299. Special Problems | 3 units |
| Hours to be arranged. | |

HOME ECONOMICS

Requirements for the A. B. degree with Major in Home Economics	General Secondary Credential	Special Secondary Credential	Liberal arts * (without a teaching credential)
Lower Division			
Major:	Units	Units	Units
H.E. 1A-1B—Clothing Construction-----	6	6	6
H.E. 7—Textiles Selection-----	2	2	—
H.E. 10A-10B—Food preparation-----	6	6	6
H.E. 20—General Nutrition-----	2	2	—
General Education: (To be fulfilled in addition to all requirements for the major)			
Art 1—Art Structure-----	2	2	—
Art 10—Design-----	3	3	—
Art 25—Color-----	3	3	—
Engl. 1A—First-year Reading and Composition-----	3	3	3
H.H. 1—Personal Health and Safety-----	2	2	2
H.H. 50—Home Nursing-----	2	2	—
Literature or Philosophy-----	3	3	6 †
Natural Sciences:			
Bact. 1—General Bacteriology-----	3	3	—
Chem. 2A-2B—Introduction to Chemistry-----	6	6	3
Electives in science (including one course in biological science)-----	—	—	6
Physical Education Activities-----	2	2	2
Psych. 1—General Psychology-----	3	3	3
Social Sciences-----	9	9	9
(Including fulfillment of requirement in United States history and constitution. See page 52.)			
Spch. 1—Fundamentals of Speech-----	3	3	3
Restricted Electives-----	1	1	8
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)			
Other Requirements:			
Educ. 50A—Introduction to Teaching-----	1	1	—
Completion of lower division requirements for a minor-----	6-20 ‡	‡	‡

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language and science. It is recommended that students who expect to do advanced work in the field of home economics should take Chemistry 1A and Chemistry 8, instead of Chemistry 2A-2B.

† May include three units in fine or applied arts.

‡ See pages 52-53. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in home economics, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

Requirements for the A. B. degree with Major in Home Economics	General Secondary Credential	Special Secondary Credential	Liberal Arts* (without a teaching credential)
Upper Division			
Major:	Units	Units	Units
H.E. 101—Advanced Clothing and Design-----	3	3	-
H.E. 130—Home Management-----	3	3	-
H.E. 150—Child Care and Training-----	2	2	-
H.E. 160—The Family-----	3	3	-
Foods and Nutrition			
Chosen from:			
H.E. 111—Advanced Meal Planning and Serving	4	4	-
H.E. 120—Dietetics			
H.E. 199—Special Problems in Foods or Nutrition			
Home Economics Electives (upper division)-----	9	9	18
Other Requirements:			
Education 113—Psychological and Social Founda- tions of Education-----	5	5	-
Educ. 153—Audio-Visual Education-----	2	2	-
Educ. 175—Core Course in Secondary Education--	5	5	-
Educ. 195HE—The Teaching of Home Economics--	2	2	-
Educ. 320C—Directed Teaching—Elementary School Home Economics-----	-	2	-
Educ. 340A—Directed Teaching—Secondary School Home Economics-----	-	3	-
I.E. 103—Art of House Design-----	3	3	-
Physiol. 101—Human Physiology-----	3	3	-
Completion of upper division requirements for a minor-----	0-6†	†	†
Electives to total-----	124	124	124
Total upper division required-----	40	40	40
Scholarship Requirements:			
In all work taken-----	1.00	1.00	1.00
In major-----	1.00	1.00	1.00
In minor-----	1.00	-	-
In each education course taken-----	1.00	1.00	-
For admission to Graduate Division:			
In major-----	1.5	-	-
In all upper division work taken-----	1.5	-	-

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language and science. It is recommended that students who expect to do advanced work in the field of home economics should take Chemistry 1A and Chemistry 8, instead of Chemistry 2A-2B.

† See pages 52-53. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in home economics, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

Graduate Year (General Secondary Only)

	<i>Units</i>
Home Economics elective (upper division or graduate)-----	3
Educ. 265—Guidance in Education-----	2
Educ. 275—Seminar in Secondary Education-----	2
Educ. 340A-340B—Directed Teaching in the Secondary School-----	6
Elective in secondary subject field-----	3
Major, minor, or electives (upper division or graduate courses) to total-----	30
Scholarship requirement (all work taken in graduate year)-----	1.75

REQUIREMENTS

<i>Junior High School Major in Home Economics</i>	<i>Minor in Home Economics</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division	A minimum of 20 units in courses approved by the home economics faculty.
H.E. 1A----- 3 units	H.E. 1A----- 3 units	
H.E. 7----- 2 units	H.E. 7----- 2 units	
H.E. 10A-10B- 6 units	H.E. 11----- 2 units	
H.E. 11----- 2 units	H.E. 20----- 2 units	
H.E. 20----- 2 units	Upper Division	
Upper Division	9 units chosen from:	
12 units chosen from:	H.E. 101A-- 3 units	
H.E. 101A-- 3 units	H.E. 130-- 3 units	
H.E. 130-- 3 units	H.E. 140-- 3 units	
H.E. 140-- 3 units	H.E. 150-- 2 units	
H.E. 150-- 2 units	H.E. 160-- 3 units	
H.E. 160-- 3 units	H.E. 165-- 3 units	
H.E. 165-- 3 units		
Total units required -----27 units	18 units	20 units

Additional requirements for the junior high school credential are given in detail on pages 63-64.

A liberal arts group major which includes home economics may be arranged in consultation with the student's adviser and the Registrar's office. See page 167.

DESCRIPTION OF COURSES**Lower Division****1A-1B. Clothing Construction (year) 3-3 units**

Emphasis on needed garments in wardrobe; development of good techniques in clothing construction processes; use of cotton, linen, and rayon fabrics; simple original design in cotton material. One one-hour lecture; two three-hour laboratories weekly. 1A not prerequisite to 1B. Open to all.

3. Home Economics for Marriage 2 units

An omnibus course; open to all. Buymanship preparation for: the engaged girl, the bride, the career girl and inexperienced homemaker. Brief consumer buymanship for trousseau; capsule wardrobe for career girl and homemaker; textile buying; brief meal planning; major home furnishings, house planning and family nutrition.

Two one-hour lecture periods per week.

5. Home Crafts 2 units

The profitable use of leisure time applied to the designing and creating of useful and artistic objects for the home. Early American stenciling of tinware and chairs of Hitchcock type, etc.; lampshades and refinishing of simple pieces in wood.

Two one-hour lecture periods per week.

7. Textile Selection

2 units

Emphasis on the newer fibers: their characteristics and blending qualities. Consumer problems in textile selection of clothing and household fabrics. Identification of the major fibers; simple laboratory test; the care and treatment of fabrics. Open to all.

Two one-hour periods per week.

10A-10B. Food Preparation (year)

3-3 units

First semester: The composition and preparation of foods; food experiments; analysis of recipes and cookery processes and their application to meal preparation.

Second semester: Continuation of the work of the first semester. Emphasis on the planning, marketing, preparing, and serving of meals.

Prerequisite: Chemistry 2A (may be taken concurrently) or, consent of the instructor.

Two one-hour lectures and two two-hour laboratory periods per week.

11. Meal Planning and Service (for men)

2 units

Open to all men interested in food selection and preparation. Simple meals prepared and served.

One one-hour lecture and one three-hour laboratory period per week.

20. General Nutrition

2-3 units

A study of nutrition with emphasis on human requirements, best selection of foods for individuals and families, and economy meals. Practice in food preparation and menu planning.

Pre-nursing students are required to include the laboratory work.

Two one-hour periods per week, plus an optional three-hour laboratory period.

Upper Division

101. Advanced Clothing and Design

3 units

Professional tailoring on home-made suits and coats; perfecting of sewing skills and techniques; time saving devices; principles of draping.

One one-hour lecture and two three-hour laboratory periods per week.

Prerequisite: Home Economics 1A-1B or approval of instructor.

102. Children's Clothing

2-3 units

Selection and construction of children's clothing from standpoint of habit training, health, ease of construction. Comparison of cost in ready-made needle work with home-made needle skill. Evaluation of ready-to-wear garments in terms of cost, function, and care. New and make-over problems.

One one-hour lecture and one two-hour activity period per week.

111. Advanced Meal Planning and Serving

2 units

One one-hour lecture and one three-hour laboratory period per week.

Prerequisite: Upper division standing and consent of instructor. Students who have had Home Economics 11 are not eligible to enroll in this course.

120. Dietetics

3 units

The fundamentals of human nutrition and the nutritive properties of foods with application to the feeding of individuals and special groups; dietaries on limited incomes. Introductory problems in diet therapy.

Prerequisite: H.E. 10A-10B and 20.

Two one-hour lectures and one three-hour laboratory period per week.

130. Home Management

3 units

Managing money, time and energy in relations to goals of family living.

Three one-hour periods per week.

140. Home Furnishings 3 units

The house, its furnishings, equipment, interior decoration and arrangement, to satisfy varied family needs and interests.

Prerequisite: Art 1 and 10; Industrial Education 103 strongly recommended.

Three one-hour periods per week.

150. Child Care and Training 2 units

Growth, development and care of the infant and preschool child.

Two one-hour periods per week.

160. The Family 3 units

See Sociology 160.

165. Consumer Buying 3 units

Special problems in personal and family finances involving the evaluation of home production and consumption of goods and services; expenditures for essentials and luxuries as related to desired goals of health, ambition, and a satisfactory standard of happy home life.

Three one-hour periods per week.

199. Special Problems in Home Economics 1-3 units

A flexible arrangement designed to meet the individual needs and interests of the major of upper division standing. Each person must have approval of the home economics staff.

INDUSTRIAL EDUCATION

<i>Suggested program for</i>		<i>Pre-special * secondary credential</i>
Lower Division		Units
Art 1—Art Structure	-----	2
Art 10—Design	-----	3
Art 45—Lettering	-----	3
Art 50—Elementary Photography	-----	3
Engl. 1A—First-year Reading and Composition	-----	3
Engr. 22—Engineering Drawing	-----	2
Engr. 40—Engineering Metallurgy	-----	3
H.H. 1—Personal Health and Safety	-----	2
I.E. 5—Pottery	-----	3
I.E. 7A—Mechanical Drawing	-----	2
I.E. 12—Art Metal	-----	2
I.E. 50—Introduction to Radio	-----	3
I.E. 35—Organization of the General Shop	-----	2
Chem. 1A—General College Chemistry	-----	5
Nat. Sci.—Electives	-----	7
P.E. Activities (including P.E. 5)	-----	2
Psych. 1—General Psychology	-----	3
Hist. 70—History of the United States	-----	2
Pol. Sci. 51—American Constitutional Government	-----	2
Soc. Sci. Electives	-----	5
Speech 1—Fundamentals of Speech	-----	3

Upper Division

Units

Educ. 113—Psychological and Social Foundations of Education	5
Educ. 115—Measurement in Education	2
Educ. 175—Core Course in Secondary Education	5
I.E. 190—Methods in Industrial Arts for Elementary Teachers	2

* From two to three years' work for this credential may be taken in this college; the remainder of the program must be taken in an institution authorized to issue this credential. The student should consult the specific requirements of the institution to which he expects to transfer. From one and one-half to two years would probably be required in the terminal institution to complete the requirements for this credential.

REQUIREMENTS*Junior High School Major in Industrial Education **

(Not less than 24 units, with at least 12 upper division units)

Lower Division

† I.E. 7A—Mechanical Drawing	2 units
I.E. 35—Organization of the General Shop	2 units
One course in woodwork	2 or 3 units
One course in metalwork	2 or 3 units
Additional lower division I.E.	2 or 4 units

Upper Division

I.E. 195—Management of School Shops	2 units
Addition upper division I.E.	10 units

Total units required	24 units
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Liberal Arts Group Major

A liberal arts group major which includes industrial education may be arranged in consultation with the student's adviser and the Registrar.

*Minors in Industrial Education**General Elementary or
Junior High School**General Secondary***Lower Division**

† I.E. 7A	2 units	† I.E. 7A	2 units
I.E. 35	2 units	I.E. 35	2 units
Electives in Industrial Education	2 units	One course in woodwork	2 or 3 units
		One course in metalwork	2 or 3 units
		Electives in Industrial Education	4 or 6 units

Upper Division

Electives in Industrial Education	6 units	Electives in Industrial Education	6 units
Total units required	12 units	Total units required	20 units

* Additional requirements for the junior high school credential are given in detail on pages 63-64.

† I.E. 22 may be elected instead of I.E. 7A if the student has had one or more years of high school mechanical drawing.

‡ I.E. 7A may be waived if the student has had one year of high school mechanical drawing.

DESCRIPTION OF COURSES**Lower Division****1. Elements of Hand Woodwork 3 units**

Designed to develop a certain amount of skill in the use of the common hand tools of this area. The history of hand tools and the lumber industry and the persons who take part in it will be stressed.

One hour lecture and three two-hour laboratory periods per week.

2. Wood Turning 2 units

Opportunity for the student to concentrate on developing skill in the use of the lathe. Work in spindle, faceplate, spiral and chuck turning in practical and artistic projects.

Three two-hour laboratory periods per week.

I.E. 5. Pottery 3 units

A beginning course in pottery to meet the needs of all students. The course includes: clay preparation; pinchpot, slab and coil methods; free form; throwing, and simple molds to include one-piece poured molds, two-piece solid casting, and press molds; glazing, decoration and firing.

One one-hour lecture and three two-hour laboratories per week.

7A. Mechanical Drawing 2 units

The fundamentals of mechanical drawing which cover orthographic, isometric, and cabinet projections; intersections of solids, sections, screws, cams, blue prints, etc.

Three two-hour laboratory periods per week.

10. Home Planning 2 units

The planning of a home. All phases of the location, orientation, structural details, built-ins, heating, lighting, plumbing and disposal units will be considered. A scaled model will be built as a class project.

One hour lecture and one three-hour laboratory period per week.

11. General Metals 3 units

The basic skills in the working with sheet metal, wrought iron, casting, spinning and machining. Operations in each area will include: layout of patterns, methods of cutting, joining, and finishing.

Prerequisite: I.E. 7A

One hour lecture and one or two three-hour laboratory periods per week.

12. Art Metal 2 units

Covers experience in the designing and artistic reproduction of articles of copper, brass, aluminum and other of the new alloys applicable to such work. The operations involve: piercing, peening, etching, chasing, tooling, spinning, repousse, overlaying and finishing.

One hour lecture and one three-hour laboratory period per week.

17. Plastics 3 units

Designed to develop a certain amount of skill in laminating, forming, carving, decorating and coloring of this new medium. Many of the operations are common to other media but their application presents many new possibilities.

One hour lecture and two three-hour laboratory periods per week.

18. Jewelry and Lapidary 2 units

The making of flat jewelry and investment castings of mountings from precious and semiprecious metals and the cutting, shaping, polishing and setting of gem materials commonly found in this area.

One hour lecture and one three-hour laboratory period per week.

22. Engineering Drawing 2 units

Fundamentals of engineering drawing. Drawing and sketching in orthographic and pictorial projections; geometrical construction; detail and assembly drawings; sectioning; auxiliary views; and limit dimensions.

Prerequisite: I.E. 7A or one year of high school mechanical drawing.

One hour lecture and two two-hour laboratory periods per week.

23. Descriptive Geometry**2 units**

Principles of descriptive geometry and the solution of three dimensional problems. Application of various branches of industry.

Prerequisite : I.E. 22 or Engineering 22.

One hour lecture and two two-hour laboratory periods per week.

35. Organization of the General Shop**2 units**

Intended to acquaint prospective teachers with the possibilities of teaching in a general shop situation. Skills and knowledge from unit background courses are combined into form suitable for teaching the same materials in general shops.

Two one-hour lecture periods per week.

40. Crafts (see Art 40)**50. Introduction to Radio****3 units**

Sound and radio waves, theory and operation of oscillators, amplifiers, rectifiers, frequency meters, vacuum tubes, cathode ray oscilloscopes, and continuous wave radiation equipment. Laboratory work in circuit design, testing and operation.

One hour lecture and two three-hour laboratory periods per week.

60. Machine Shop**3 units**

Fundamental hand and machine tool operations; plain and taper turning; thread cutting; shaping; grinding; and care of tools and machines.

Prerequisite : I.E. 7A.

One hour lecture and two three-hour laboratory periods per week.

Upper Division**105A. Intermediate Pottery****2-3 units**

A continuation of Pottery, with more emphasis on special interests of the students. Included are studies in : commercial methods such as jiggering, turning, plaster running, casting, more advanced mold designing, throwing, glaze calculation, firing.

Six to nine laboratory hours per week.

Prerequisite : I.E. 5.

105B. Advanced Pottery**2-3 units**

Advanced work in pottery. The student may carry on his special field of interest in commercial methods, creative throwing, clay bodies, to include development for various uses of the native clays of the area; experimental firing, and glaze calculation.

Six to nine laboratory hours per week.

Prerequisite : I.E. 5 and 105A, or consent of instructor.

107. Advanced Mechanical Drawing**2 units**

Freehand sketching in orthographic and pictorial projection; detail and assembly drawings; welding drawings; electrical and piping layouts; gears and cams; and an introduction to graphic integration and differentiation.

Prerequisite : I.E. 7A and I.E. 22 or 23.

One hour lecture and two two-hour laboratory periods per week.

121. Furniture Construction**3 units**

The design and construction of solid and upholstered furniture. Emphasis is given to period and modern types with a view toward the selection, designing and building of a suitable project to be built as a part of the laboratory work.

Prerequisite : I.E. 1 and 7A.

One hour lecture and two three-hour laboratory periods per week.

123. Pattern Making and the Theory of Foundry Practice**2 units**

The basic processes involved in these two kindred areas. Patterns will be made and casting will be done in the softer metals such as lead, aluminum and other soft alloy metals.

Prerequisite : I.E. 11.

Two three-hour laboratory periods per week.

- 124. Cabinet Making** **3 units**
Intended to meet the needs of the student who wishes to concentrate in this area. Opportunity will be given to design and build a complete set of built-ins for a home or place of business.
Prerequisite: I.E. 1 and 7A, or consent of instructor.
One hour lecture and three two-hour laboratory periods per week.
- 130. Industrial Arts Design** **2 units**
For industrial education majors and minors and offers the theory and opportunity to practice the basic principles of design in the development of plans for projects in the various media in the field. (Open only to students majoring or minoring in industrial education.)
Two one-hour lecture periods per week.
- 150. Radio** **3 units**
See Industrial Education 50.
Prerequisite: I.E. 50.
- 160. History and Philosophy of Industrial Education** **2 units**
Affords opportunity to become acquainted with the persons and ideas influencing the thinking, content and method of the present day industrial arts program.
Two one-hour lecture periods per week.
- 190. Methods in Industrial Arts for Elementary Teachers** **2 units**
A survey of the field of industrial arts with a view to the needs of elementary schools. The practical teaching devices of the area will be stressed and students will be expected to gain a certain amount of skill in connection with the processes involved in several media.
One one-hour lecture and three one-hour laboratory periods per week.
- 195. Management of School Shops** **2 units**
The objectives, method, and content of shop programs for majors and minors who will teach industrial education in junior or senior high schools.
Two one-hour lecture periods per week.

MUSIC**Requirements for the A.B. Degree With Major in Music**

<i>Requirements for the A.B. Degree With Major in Music</i>	<i>General</i>	<i>Special</i>	<i>Liberal Arts *</i>
	<i>Secondary Credential</i>	<i>Secondary Credential</i>	<i>(Without a teaching Credential)</i>
Lower Division			
Major:	<i>Units</i>	<i>Units</i>	<i>Units</i>
Mus. 1—Music Survey	2	2	2
Mus. 11A-11B—Ear Training and Sight Singing	4	4	4
Mus. 11C—Ear Training and Sight Singing --	2	2	--
Mus. 20A-20B—Harmony	6	6	6
Mus. 41—Instrumental Conducting	2	2	--
Mus. 46—Choral Conducting	2	2	--
Mus. 71—Strings and Percussion	2	2	--
Mus. 72—Brasses and Woodwinds	2	2	--
Applied Music	4	4	2
Music Activities	2	2	--
General Education: (To be fulfilled in addition to all requirements for the major)			
Engl. 1A—First-year Reading and Com- position	3	3	3
H.H. 1—Personal Health and Safety	2	2	2
Literature, Philosophy or Arts	6	6	6
(Fine and applied arts not to exceed three of the six)			
Natural Science	9	9	9
(Including one physical and one biological science)			
Physical Education Activities	2	2	2
Psych. 1—General Psychology	3	3	3
Social Sciences (see page 52)	9	9	9
(Including fulfillment of requirement in United States history and Constitution. See page 61)			
Spch. 1—Fundamentals of speech	3	3	3
Restricted Electives	8	8	8
(Chosen from the above General Education fields or from mathematics, family life edu- cation, or not more than six units of foreign language)			
Other Requirements:			
Educ. 50A—Introduction to Teaching	1	1	--
Completion of lower division requirements for a minor	6-20 †	†	†

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirements in foreign language.

† See pages 52-53. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in music, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

<i>Requirements for the A.B. Degree With Major in Music</i>		<i>General Secondary Credential</i>	<i>Special Secondary Credential</i>	<i>Liberal Arts (Without a teaching Credential)</i>
Upper Division				
Major:		<i>Units</i>	<i>Units</i>	<i>Units</i>
Mus. 101-102—Music History -----	4	4	4	
Mus. 120A—Advanced Harmony -----	3	3	3	
Mus. 123—Counterpoint -----	3	3	3	
Mus. 124—Form and Analysis -----	2	2	2	
Mus. 125—Composition -----	2	2	2	
Mus. 131—Instrumental Arranging -----	2	2	--	
Applied Music -----	4	4	4	
Music Activities -----	2	2	--	
Electives—Upper Division Music -----	--	--	6	
Other Requirements:				
Educ. 113—Psychological and Social Foundations of Education -----	5	5	--	
Educ. 153—Audio-Visual Education -----	2	2	--	
Educ. 175—Core Course in Secondary Education	5	5	--	
Educ. 190M—Elementary School Music -----	--	2	--	
Educ. 195M—The Teaching of Music -----	2	2	--	
Educ. 320C—Directed Teaching— Elementary School Music -----	--	2	--	
Educ. 340A—Directed Teaching— Secondary School Music -----	--	3	--	
Completion of upper division requirements for a minor -----	0-6	*	*	
Electives to total -----	124	124	124	
Total upper division required -----	40	40	40	
Scholarship Requirements:				
In all work taken -----	1.00	1.00	1.00	
In major -----	1.00	1.00	1.00	
In minor -----	1.00	--	--	
In each education course taken -----	1.00	1.00	--	
For admission to Graduate Division:				
In major -----	1.5			
In all upper division work taken -----	1.5			
Graduate Year (General Secondary Credential Only)				
Music 299—Seminar in Music Problems -----			<i>Units</i> 3	
Educ. 265—Guidance in Education -----			2	
Educ. 275—Seminar in Secondary Education -----			2	
Educ. 340A-340B—Directed Teaching in the Secondary School -----			6	
Elective in secondary subject field -----			3	
Major or minor or electives (upper division or graduate courses) to total at least -----			30	
Scholarship requirement (all work in graduate year) -----			1.75	

* See pages 52-53. Part of the work required for a teaching minor may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in music, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

PERFORMANCE TESTS

In addition to the subject and scholarship requirements listed above, the State Department of Education has prescribed the following standards of performance which must be met by candidates for the general and the special secondary credentials:

- I. **PIANO:** Ability to play a Bach two-part invention, an artistic accompaniment, and four-part hymns at sight.
- II. **VOICE:** Ability to sing at least one song representative of each of the following periods of vocal literature:

Classical period
Romantic period
Modern period

Ability to sing at sight any part of a four-part hymn.

- III. **CONDUCTING:** Ability to train changed and unchanged voices; to conduct an open four-part score; to tune, adjust, and demonstrate the fingering of any instrument of the orchestra; to play the major scale of the instrument one octave on at least one representative instrument of each section of the orchestra; and to conduct from an orchestral score.

REQUIREMENTS

<i>Junior High School Major in Music</i>	<i>Minor in Music</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division	Lower Division
Music 1A ----- 2 units	Music 1A ----- 2 units	Music 3-4 ---- 6 units
Music 11A-11B 4 units	Music 10 ----- 3 units	Music 10 ----- 3 units
Music 20A-20B 6 units	Music activities 3 units	Music 46 ----- 2 units
Music 41 ----- 2 units		Music 60 or 65 1 unit
Music 46 ----- 2 units		Applied music-- 2 units
Music 71-72 -- 4 units		
Applied Music - 2 units		
Upper Division	Upper Division	Upper Division
Music 101-102 - 4 units	Music activities 2 units	Electives ap-
Music 190 ----- 2 units	Electives ap-	proved by
Music activities 3 units	proved by	music faculty 6 units
Applied music - 3 units	music faculty 4 units	
Total units		
required --- 34 units	14 units	20 units

A liberal arts group major which includes music may be arranged in consultation with the student's adviser and the Registrar's office. See page 167.

Additional requirements for the junior high school credential are given in details on pages 63-64.

DESCRIPTION OF COURSES**Lower Division**

1. Music Survey 2 units

An introductory survey of the history of music designed chiefly to orient the beginning music student in his field of study.

Two one-hour periods per week.

- 3-4. Music Appreciation (year) 3-3 units

For non-music majors wishing to know more about music as a part of their general education.

Three one-hour periods per week.

- 10. Musicianship** **3 units**
 Elementary work in ear training, sight singing and piano keyboard for the teaching credential candidate.
 Required of all students working toward a teaching credential. Music majors not eligible.
 Three one-hour periods per week.
- 11A. Ear Training and Sight Singing** **2 units**
 Music fundamentals: notation, scales, intervals, triads, modes, chord structure, simple musical forms, sight singing and melodic dictation.
 Two one-hour periods per week.
- 11B-11C. Ear Training and Sight Singing (year)** **2-2 units**
 Continuation of Music 11A with advanced harmonic, melodic and rhythmic training.
 Prerequisite: Music 11A.
 Two one-hour periods per week.
- 20A-20B. Harmony (year)** **3-3 units**
 Harmonization of melodies; figured bass; all triads and inversions, dominant and secondary sevenths, non-harmonic tones, simple modulation, keyboard harmony.
 Three one-hour periods per week.
- 41. Instrumental Conducting** **2 units**
 Baton and rehearsal technique; the problems associated with various kinds of instrumental organizations; program building; principles of interpretation.
 Two one-hour periods per week.
- 46. Choral Conducting** **2 units**
 Same as Music 41 but applied to choral singing.
 Two one-hour periods per week.
- 70A-70B. Beginning Piano** **1-1 unit**
 Class instruction open to any student who has a desire to learn to play the piano. No preliminary knowledge of piano is needed.
 One one-hour period per week, with outside practice required.
- 70C-70D. Intermediate Piano** **1-1 unit**
 Class instruction open to any student who has had the equivalent of Music 70A-B.
 One one-hour period per week, with outside practice required.
- 71. Strings and Percussion** **1-2 units**
 Study and practice of one or more of the stringed instruments; percussion instruments and their techniques; study of teaching methods.
 Two one-hour periods per week.
- 72. Brasses and Woodwinds** **1-2 units**
 Class instruction in wind instruments and elementary methods of instruction for the general student and the music credential candidate.
 Two one-hour periods per week.
- 75A-75B. Beginning Violin** **1-1 unit**
 Class instruction open to any student who has a desire to learn to play the violin.
 Prerequisite: Music 71 or equivalent.
 One one-hour period per week, with outside practice required.
- 75C-75D. Intermediate Violin** **1-1 unit**
 Class instruction in violin open to any student who has had the equivalent of Music 75B.
 One one-hour period per week, with outside practice required.
- 76A-76B. Beginning Voice** **1-1 unit**
 Class instruction open to any student wishing to learn the fundamentals of singing. No previous voice training needed.
 One one-hour period per week, with outside practice required.

76C-76D. Intermediate Voice**1-1 unit**

Class instruction open to any student who has had the equivalent of Music 76A-76B.

One one-hour period per week, with outside practice required.

Upper Division**101-102. Music History (year)****2-2 units**

The critical study of music as an artistic, historical and socio-economic aspect of western civilization. For music and history majors.

Prerequisite: Music 1 or consent of instructor.

Two one-hour periods per week.

120A. Advanced Harmony**3 units**

Essentials of advanced harmony: chromatic alteration, modulation by means of altered chords, use of all non-chord tones, keyboard work.

Prerequisite: Music 20A-20B.

Three one-hour periods per week.

123. Counterpoint**3 units**

Strict counterpoint in all species; two, three, and four-part writing.

Prerequisite: Music 120A.

Three one-hour periods per week.

124. Form and Analysis**2 units**

Review of simple part-forms and study of complex forms with analysis based on the principles of repetition and contrast.

Prerequisite: Music 123.

Two one-hour periods per week.

125. Composition**2 units**

The simple and more developed binary and ternary song forms for piano, voice, and small ensemble.

Prerequisite: Music 123.

Two one-hour periods per week.

131. Instrumental Arranging**2 units**

A practical course in arranging music for various combinations of instruments, with special reference to school orchestras and bands. To be taken in senior year.

Prerequisite: consent of the instructor.

Two one-hour periods per week.

170A-170B. Advanced Piano**1-1 unit**

Class instruction open to any student who has had the equivalent of Music 70C-70D.

175A-175B. Advanced Violin**1-1 unit**

Class instruction open to any student who has had the equivalent of Music 75C-75D.

One one-hour period per week, with outside practice required.

176A-176B. Advanced Voice**1-1 unit**

Class instruction open to any student who has had the equivalent of Music 76C-76D.

190. Elementary School Music**2 units**

(See Educ. 190M)

The study and practice of methods and materials used in teaching music in the elementary grades.

Prerequisite: Music 10 or equivalent and one year of chorus or choir. The equivalent of Music 70B is strongly recommended.

Two ninety-minute periods per week.

- 195. The Teaching of Secondary School Music** 2 units
 (See Educ. 195M)
 The study and practice of methods and materials used in teaching and supervising music in high schools.
 Two one-hour periods per week.

- 199. Special Problems** 2-3 units
 Methods of research and projects in the field of music and music teaching.
 Prerequisite: Consent of music staff.

Graduate Division

- 299. Special Problems** 3 units
 Research in the field of music and music teaching.
 Prerequisite: Music 199 and consent of music staff.

Musical Organizations

- 50-150. Orchestra** 1 unit
 Affords qualified students an opportunity for study of good orchestral composition and for learning to play with interpretation, finish, and precision. Outside practice necessary.
 Prerequisite: Consent of instructor on basis of auditions.
 Two one-and-one-half hour periods per week.

- 51-151. Band** 1 unit
 This organization provides music for athletic events, assemblies, and other campus activities and offers opportunities in radio broadcasting and recording.
 Two one-and-one-half-hour periods per week.

- 58-158. Piano Ensemble** ½ unit
 Study of duo-piano works of all periods in music; also original piano duets. Interpretation and technique of ensemble playing.
 Two one-hour periods per week.

- 59-159. Chamber Ensemble** ½ unit
 Study and performance of chamber music of all periods. Class will include duo-piano and small instrumental ensembles.
 Prerequisite: Consent of instructor.
 Two one-hour periods per week.

- 60-160. College Chorus** ½ unit
 Open to any member of the student body without try-outs.
 Two one-hour periods per week.

- 65-165. A Cappella Choir (year)** 1-1 unit
 A selected group of singers who sing a cappella literature ranging from the sixteenth century to the present.
 Prerequisite: Consent of instructor on the basis of auditions.
 Four hours per week.

- Madrigal Singers** no credit
 Prerequisite: Consent of instructor on the basis of auditions.

Applied Music

Private lessons will be given on the basis of one half-hour lesson per week for a fee of \$3 per lesson. (Class lessons in each of these fields are covered by regular tuition, without extra charge.)

- 80-180. Private Lessons—Piano** 1 unit
 Mr. Fulkerson, Mr. Mearns.
- 81-181. Private Lessons—Strings** 1 unit
 Mrs. Thompson.

82-182. Private Lessons—Brass Staff.	1 unit
83-183. Private Lessons—Woodwinds Staff.	1 unit
84-184. Private Lessons—Organ Mr. Mearns.	1 unit
86-186. Private Lessons—Voice Mr. Barlow.	1 unit

SPEECH

<i>Requirements for the A.B. Degree with Major in</i>	<i>Speech (General Second- ary Creden- tial)</i>	<i>Liberal Arts *</i>		
		<i>Speech- English</i>	<i>Radio- Speech</i>	<i>Speech- Dra- matics</i>
		<i>(Without a Teaching Credential)</i>		
	Lower Division			
Major:	<i>Units</i>	<i>Units</i>	<i>Units</i>	<i>Units</i>
Spch. 2—Oral Interpretation of Literature	3	3	3	3
Spch. 3—Public Speaking	3	3	3	3
Spch. 10—Survey of Radio Broadcasting	—	—	3	—
Spch. 20—Technique of Acting	2	2	—	2
Spch. 21—Elementary Stagecraft	2	2	—	2
Lower Division—Elective in Speech	2	—	—	—
General Education: (To be fulfilled in addition to all requirements for the major)				
Engl. 1A—First-year Reading and Composition	3	3	3	3
H.H. 1—Personal Health and Safety	2	2	2	2
Literature, Philosophy or Arts	6	6	6	6
(Fine and applied arts not to exceed three of the six)				
Natural Science	9	9	9	9
(Including one physical and one biological science)				
Physical Education Activities	2	2	2	2
Psych. 1—General Psychology	3	3	3	3
Social Sciences (See page 52)	9	9	9	9
(Including fulfillment of requirement in United States history and constitution. See page 52.)				
Spch. 1—Fundamentals of Speech	3	3	3	3
Restricted Electives	8	8	8	8
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign languages.)				
Other Requirements:				
Jn. 20—Newswriting	—	—	3	—
B.A. 2A—Typing (or equivalent skill)	—	—	0-2	—
B.A. 50—Salesmanship	—	—	3	—
I.E. 50—Introduction to Radio	—	—	3	—
Educ. 50A—Introduction to Teaching	1	—	—	—
Completion of lower division requirements for a minor	6-20 †	—	—	—

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

† See pages 52-53. Part of the work for a teaching minor may be completed in the graduate year.

Requirements for the A.B. Degree with Major in	Speech (General Secondary Credential)	Liberal Arts *		
		Speech- English	Radio- Speech	Speech- Dra- matics
		(Without a Teaching Credential)		
Upper Division				
Major:	Units	Units	Units	Units
Spch. 111—Adv. Radio Workshop	—	—	1	—
Spch. 112—Radio Writing	—	—	3	—
Spch. 113—Radio Production Directing	—	—	3	—
Spch. 114—Radio Sales and Commercial Operation	—	—	3	—
Spch. 115—Advanced Radio Production	—	—	3-8	—
Spch. 126—Play Production	3	3	—	3
Spch. 127—Play Production	3	3	—	3
Spch. 140—Survey of the Drama	3	3	—	3
Spch. 170—Phonetics	3	—	—	3
Spch. 180—Speech Correction	3	—	—	—
Electives in Upper Division Speech chosen from:				
Spch. 102—Advanced Expression and Interpretation	3	—	0-6	7
Spch. 103—Advanced Public Speaking				
Spch. 106—Discussion Methods				
Spch. 110—Survey of Broadcasting				
Spch. 111—Advanced Radio Workshop				
Spch. 125—Dramatic Workshop				
Spch. 130—Playwriting				
Spch. 170—Phonetics				
Engl. 112—Phonetics or				
115—The English Language	—	3	—	—
Engl. 136A or 136B—American Literature	—	3 or	—	—
Engl. 162—Shakespeare	—	(3)	—	—
Electives in Speech or	—	—	—	—
English	6	9	5	5
Total required in the major (Upper Division)	(24)	(24)	(24)	(24)
Other Requirements:				
Educ. 113—Psychological and Social Founda- tions of Education	5	—	—	—
Educ. 153—Audio-Visual Education	2	—	—	—
Educ. 175—Core Course in Secondary Education	5	—	—	—
Educ. 195Sp—The Teaching of Speech	2	—	—	—
Completion of upper division requirements for a minor	0-6 †	—	—	—
Electives to total	124	124	124	124
Total upper division required	40	40	40	40
Scholarship Requirements:				
In all work taken	1.00	1.00	1.00	1.00
In major	1.00	1.00	1.00	1.00
In minor	1.00	—	—	—
In each education course taken	1.00	—	—	—
For admission to Graduate Division:				
In major	1.5	—	—	—
In all upper division work taken	1.5	—	—	—

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

† See pages 52-53. Part of the work for a teaching minor may be completed in the graduate year.

Graduate Year (General Secondary Credential Only)

	<i>Units</i>
Electives in speech (graduate or upper division courses)	3
Educ. 265—Guidance in Education	2
Educ. 275—Seminar in Secondary Education	2
Educ. 340A-340B—Directed Teaching in the Secondary School	6
Elective in secondary subject field	3
Major or minor or electives (upper division or graduate courses) to total	30
Scholarship requirement (all work in graduate year)	1.75

SPECIAL SECONDARY CREDENTIAL IN SPEECH CORRECTION

Holders of general elementary or general secondary credentials who have taught successfully for two years (or who have completed at least four units of directed teaching) and who have the necessary personal characteristics for work with handicapped children may qualify for the special secondary credential in speech correction by completing the following courses:

Lower Division

	<i>Units</i>
Spch. 1—Fundamentals of Speech	3
Spch. 2—Oral Interpretation of Literature	3

Upper Division

Spch. 170—Phonetics	3
Spch. 180—Speech Correction	3
Spch. 181—Advanced Speech Correction	3
Educ. 320C—Directed Teaching in the Elementary School (Special Field of Speech Correction)	2

GENERAL SECONDARY CREDENTIAL WITH MAJOR IN LANGUAGE ARTS

Details of this program are given on pages 117-118 of this catalog under the Division of Language and Literature.

REQUIREMENTS

<i>Junior High School</i>		<i>Teaching Minor for Candidates for General Secondary Credential</i>	
<i>Major</i>		<i>Speech</i>	
Lower			
Division	Spch. 1 ---- 3 units	Spch. 1 ----	3 units
	Spch. 2 ---- 3 units	Spch. 2 ----	3 units
	Spch. 3 ---- 3 units	Plus courses approved by the Divisional Chairman 14 units	
	Electives ---- 3 units		
Upper		(At least 6 units must be in the upper di- vision.)	
Division	Spch. 126 --- 3 units		
	Spch. 127 --- 3 units		
	Spch. 180 --- 3 units		
	Spch. 191 --- 3 units		
	Electives ---- 3 units		
Total Units Required		20 units	
27 units			

Additional requirements for the junior high school credential are given in detail on pages 63-64.

	<i>Minors</i>	
	<i>Radio</i>	<i>Speech-Dramatics</i>
Lower Division-----	Spch. 1 ----- 3 units Spch. 2 ----- 3 units	Spch. 1 ----- 3 units Spch. 3 ----- 3 units
Upper Division-----	Spch. 113 ---- 3 units Spch. 114 ---- 3 units	Spch. (U.D.) 6 units
Total Units Required-----	12 units	12 units

DESCRIPTION OF COURSES**Lower Division****X. Speech Clinic 1-1 unit**

Individual instruction for students having minor disturbances of voice or speech as well as those having more serious disorders. Consent of the instructor must be obtained for enrollment. A maximum of two units may be applied toward degree requirements.

One or two one-hour periods per week.

1. Fundamentals of Speech 3 units

An introductory course in public speaking and reading aloud, involving the study of voice control, delivery techniques, speech composition, types of readings and speeches.

Prerequisite: English 1A, except for speech majors.

Three one-hour periods per week.

2. Oral Interpretation of Literature 3 units

A basic course in voice training and in the art of oral interpretation. Oral interpretation of poetry, short stories, and dramatic scenes from the standpoint of both emotional and intellectual reaction.

Prerequisite: Speech 1.

Three one-hour periods per week.

3. Public Speaking 3 units

A basic course in the fundamentals of speech planning and delivery. The course aims to develop self-confidence and poise through oral expression and to awaken interest in the events and problems of the modern world.

Prerequisite: Speech 1.

Three one-hour periods per week.

7. Radio Speech 3 units

The theory and practice of radio broadcasting as distinguished from platform speaking. Class practice with proven broadcasting materials of all kinds.

Prerequisite: Speech 1 and 2 or the consent of the instructor.

Three one-hour periods per week.

10. Survey of Radio Broadcasting 3 units

An introduction to radio and television, including the history of broadcasting; government regulations; station organization and major network organization; method and types of broadcasting and production; commercial methods and policies; educational broadcasting and broadcasters; public service responsibilities; recent trends in broadcasting; and the future of radio and television.

Three one-hour periods per week.

11. Radio Workshop 1-2 units

The emphasis is upon the production of radio programs presented on the campus training station and programs released over the local radio stations in Eureka. Course work includes training in related skills such as writing, directing, producing, and broadcasting radio programs.

Two three-hour laboratory periods per week.

20. Technique of Acting

2 units

Embraces the basic principles of dramatic art. It teaches the fundamentals of pantomime, impersonation, and oral expression and acting. It is designed for students with little or no stage experience who wish to improve their speaking voices and to develop poise and self confidence.

Two two-hour periods per week.

21. Elementary Stagecraft

2 units

The planning, building, painting and lighting of scenery.

One one-hour lecture and one three-hour laboratory period per week.

22. Stage Make-up

1 unit

Theory and practice of make-up for the stage. Lectures on make-up materials, their appearance under stage light, and the characterization by facial change. Laboratory application of principles.

One two-hour period per week.

25. Dramatic Workshop

1-2 units

A laboratory course in acting and in the technical practices of the stage, including construction of sets, stage lighting, theatrical costume and make-up. Time is spent in the actual work of preparing plays for public performance. A maximum of four units degree credit is allowed for this course.

Three two-hour periods per week (for two units of credit).

30. Playwriting

3 units

The critical analysis of dramatic structure and techniques designed for the student interested in dramatic literature, play directing, or the writing of original plays for the stage and radio.

Prerequisite: English 1A-1B or consent of the instructor.

Two one-hour lectures and one two-hour activity period per week.

40. Drama History and Appreciation

3 units

Designed for students not majoring in speech and drama, but who wish to know more about drama as a part of their general education. Will cover representative plays from the Greeks to those of present-day playwrights—the Continent, England, and America.

Not open to speech and drama majors.

Three one-hour periods per week.

Upper Division

Speech 1, and 2 or 3 or consent of instructor are prerequisite to all upper division courses.

102. Advanced Expression and Interpretation

3 units

A course in reading aloud in which particular attention will be paid to the specific interests, needs, and abilities of the individual student, which determine his activities in class. Special attention is given to the needs of prospective teachers with respect to reading aloud in the classroom.

Prerequisite: Speech 2.

Three one-hour periods per week.

103. Advanced Public Speaking

3 units

Embraces a more detailed study of speech planning, the techniques of presentation, and the forms of address. Extensive practice in extemporaneous speaking.

Prerequisite: Speech 3.

Three one-hour periods per week.

106. Discussion Methods

2 units

Techniques of group discussion including the conference, panel, and symposium forms; practical experience in discussion of current problems; the study of parliamentary law and its application to the organization and functioning of groups.

Two one-hour periods per week.

- 110. Survey of Radio Broadcasting** 3 units
Designed for radio majors and minors and students working toward a Liberal Arts degree. Upper division students are required to work on research or other suitable projects toward class credit.
Three one-hour periods per week.
- 111. Advanced Radio Workshop** 1-2 units
A course of the same character as Speech 11 for advanced students.
Prerequisite: Consent of the instructor.
Two three-hour laboratory periods per week.
A maximum of four units degree credit is allowed for this course.
- 112. Radio Writing** 3 units
Analytical study is given to radio play scripts, continuity forms, commercial announcements, special events programs, talks, public service programs, etc. Scripts written by members of this class are utilized in the workshop courses, production courses, and directing courses.
Prerequisite: English 1A-1B and consent of the instructor.
Three one-hour periods per week.
- 113. Radio Production Directing** 3 units
Study of the program director's job in the average radio station, including the planning, organization, and production of all types of radio programs: Special events, broadcasts, commercial programs, interviews, dramatic programs, network programs, and various types of recorded programs.
Prerequisite: Speech 10 or 110, 11 or 111, or consent of instructor.
Three one-hour class periods per week.
- 114. Radio Sales and Commercial Operation** 3 units
Study of the business manager's job in the average radio station; analysis of the costs in running a station, copy analysis and placement, sales methods, analysis of programs in relation to sales possibilities, Federal Trade Commission regulations, national advertising associations, costs of programs, making of contracts, etc.
Prerequisite: Speech 10 and 113 or consent of instructor.
Three one-hour periods per week.
- 115. Advanced Radio Production** 3-8 units
The many aspects of the radio profession through "on the job" participation in studio work of stations KIEM-KRED, KHUM, and the college campus training station. Offered to superior students who meet related requirements and who have completed Speech 10, 110, 11, 111, 112, 113, and 114.
From nine to twenty-four hours per week, depending upon the unit credit to be earned.
- 116. Music in Radio Broadcasting** 3 units
The various uses of music in the radio program involving the building and production of musical programs; writing musical continuity; arranging music for dramatic radio; and inspection of the functional importance of music and its practical use in current programs.
Prerequisite: Speech 10 or 110, 11 or 111, 113.
Three one-hour periods per week.
- 125. Advanced Dramatic Workshop (fall, spring)** 1-2 units
A course of the same character as Speech 25 for advanced students.
Prerequisite: Speech 1, 2 or 3 or consent of the instructor.
Three two-hour periods per week (for two units).
A maximum of four units degree credit is allowed for this course.
- 126. Play Production** 3 units
Designed for teachers and students who intend to engage in the work of directing plays. Attention is given to the choice of material for amateur theatricals, directing techniques, make-up, costuming, publicity, and advertising, ticket sales, house management, etc.
Two one-hour lectures and one three-hour laboratory period per week.

127. Play Production

3 units

A lecture and laboratory course designed primarily for teachers and students who intend to engage in the work of staging play productions. This advanced course includes stage designing, construction, painting, lighting, sound effects, furniture, and furnishings.

Two one-hour and one three-hour laboratory periods per week.

130. Advanced Playwriting

3 units

A continuation of Speech 30, with opportunity for each student to concentrate his activities in any one of the following fields of playwriting: one-act plays, radio plays, skits, blackouts, three-act plays, for possible production by the college drama department.

Prerequisite: English 1A-1B or consent of instructor.

Two one-hour lectures and one two-hour activity period per week.

140. Survey of the Drama

3 units

The historical development of the drama, covering representative plays from the Greeks to those of present-day playwrights—the Continent, England, and America. Students not majoring in speech and drama may take this course either as a lower division class (Speech 40) or as an upper division class (Speech 140). Students having upper division standing are advised to register for Speech 140.

Three one-hour periods per week.

141. Modern American Drama

3 units

A course in the American theater and its staging, acting, and drama from the Civil War to the present day. Primary emphasis in the course is placed upon the theater and drama from 1918 to the present. The course is conducted through lectures, assigned reading, discussions, and assigned reports.

Three one-hour periods per week.

170. Phonetics (fall)

3 units

Principles of phonetics; pronunciation, based on contemporary American usage; phonetic analysis applied to speech improvement.

Three one-hour periods per week.

180A. Speech Correction

2 units

The classification, diagnosis, and treatment of speech defects. Theory is supplemented by demonstrations of clinical work with children and adults in the speech clinic. Intended particularly for training prospective teachers to recognize and correct speech defects of elementary school children.

180B. Speech Correction Clinical Practice

1 unit

Supervised practical work in the speech clinic with children and adults having articulation and voice disorders.

Three one-hour laboratory periods per week.

181A. Advanced Speech Correction

2 units

Emphasis is placed upon the more serious types of speech disorders. Special attention is given to making case studies and speech surveys as well as to methods of testing, diagnosis, and treatment.

Two one-hour lecture periods per week.

191. Speech and Drama in the Elementary and Junior High School

3 units

Designed for the teacher who is interested in using dramatic activities and discussion techniques. A workshop for the consideration of such problems as: Conducting round tables, panels, symposia, and forums; coaching debaters; choosing school plays; using speech and drama in the classroom.

Three one-hour periods per week.

199. Special Problems

1-3 units

Individual study on selected problems in the fields of speech, drama, stagecraft, speech correction, or radio.

Hours to be arranged with the instructor.

Graduate Division**226. Advanced Stage Direction****3 units**

The purpose of this course is to train teachers in the techniques of dramatic direction. Each student will produce a full-length play and will prepare a prompt book based on the production.

Prerequisite: Graduate standing and consent of instructor.

241. Modern American Drama**3 units**

See Spch. 141.

THE DIVISION OF HEALTH AND PHYSICAL EDUCATION

OBJECTIVES

The Division of Health and Physical Education has the following functions:

1. To provide all students with an opportunity to secure instruction for the development of skills in a variety of physical activities which contribute to maintenance of health and which give opportunity for self-expression in individual or group participation;
2. To give students an opportunity for recreation and competition in the voluntary, the intramural, and the intercollegiate sports programs;
3. To provide professional training for students seeking to qualify themselves for positions in public school teaching in health and physical education or in school and municipal recreation leadership;
4. To prepare teachers to handle intelligently the health and physical education program in the elementary schools;
5. To provide curricula leading to the B.S. degree for graduate nurses and prenursing students; and
6. To provide opportunities for those interested to acquire skills, techniques, and principles which enable them to serve their communities as leaders of young people.

GENERAL REQUIREMENTS IN HEALTH AND PHYSICAL EDUCATION

Service Courses

All students who are enrolled in the college for 12 or more units are required to take an activity course twice weekly during each semester of the freshman and sophomore years. Men (other than physical education majors) may substitute registration in intercollegiate athletics for an activity course during the semester of competition. First semester freshmen are expected to enroll in P. E. 5 (Men) or P. E. 15 (Women). Veterans with Korean service are exempt from the physical education requirement.

Lower division students carrying fewer than 12 units during any semester may postpone taking physical education but are not exempt from the total four semesters requirement in lower division.

No permanent excuse from required activity courses may be granted other than by written consent of the division chairman.

Health Education

Two units of credit in H. & H. 1 (Personal Health and Safety) are required of all students for graduation in A.B. and B.S. degree programs. This course meets the State regulation for safety and fire prevention education.

<i>Requirements for the A.B. Degree With Major in Health and Physical Education</i>	<i>General Secondary Credential</i>	<i>Special Secondary Credential</i>	<i>Liberal Arts* (Without a teaching credential)</i>
Lower Division			
Major:	<i>Units</i>	<i>Units</i>	<i>Units</i>
Physical Education Activities-----	2	2	2
P.E. 70—Introduction to Physical Education--	2	2	2
H.H. 55—First Aid -----	2	2	2
Anat. 66—Human Anatomy -----	3	3	3
General Education (To be fulfilled in addition to all work taken for the major) :			
Engl. 1A-1B—First-year Reading and Composi- tion -----	6	6	6
H.H. 1—Personal Health and Safety-----	2	2	2
Literature, Philosophy, or Arts-----	6	6	6
(Fine and applied arts not to exceed three of the six)			
Natural Sciences -----	9	9	9
(Including :			
Chem. 2A—General Chemistry -- 3 units			
Physiol. 1—Elementary Physiol.. 3 units			
Electives in science ----- 3 units)			
Psych. 1—General Psychology -----	3	3	3
Social Sciences. (See page 52.)-----	9	9	9
(Including fulfillment of requirement in United States history and Constitution. See page 52.)			
Spch. 1—Fundamentals of Speech-----	3	3	3
H.E. 20—General Nutrition -----	2	2	2
Restricted Electives -----	3	3	3
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)			
Other Requirements:			
Educ. 50A—Introduction to Teaching-----	1	1	1
Completion of lower division requirements for a minor -----	6-20†	†	†

* The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

† See pages 52-53. Part of the work required for a teaching minor (usually not more than five units) may be completed in the graduate year. While a minor is not required for either the special secondary credential or the liberal arts major in physical education, it is strongly recommended if the student entertains the possibility of subsequently working for a general secondary credential.

Requirements for the A.B. Degree With Major in Health and Physical Education	General	Special	Liberal Arts
	Secondary Credential	Secondary Credential	(Without a teaching credential)
Upper Division			
Major:	Units	Units	Units
*P.E. 100-101—Physical Education Activity (Majors) -----	4	4	4
*P.E. 151—Kinesiology and Applied Anatomy	3	3	3
P.E. 152—Methods in Corrective Physical Education -----	2	2	2
*P.E. 153—Physiology of Exercise -----	3	3	3
P.E. 154—Tests and Measurements in Physical Education -----	2	2	2
P.E. 175—History and Principles of Physical Education -----	2	2	2
*P.E. 191—Singing Games and Folk Dances	1	1	1
P.E. 192A-B—Theory of Athletics (Men) or 193A-B—Methods of Teaching Sports (Women) -----	4	4	4
H.H. 161—School Health Program -----	3	3	3
Electives chosen from:			
P.E. 76—Principles of Community Recreation	5	5	5
P.E. 77—Campcraft and Leadership			
P.E. 88—Club Leadership			
P.E. 178—Departmental Organization and Administration			
P.E. 199—Special Problems			
H.H. 50—Home Nursing	5	5	5
H.H. 156—Techniques in Athletic Training			
H.H. 160—Public Health			
NOTE: If the student fails to pass the pro- ficiency test in activity areas at the conclusion of the junior year, it will be necessary to utilize two of the five elective units listed above to develop proficiency in these areas.			

* Courses starred should be taken during the junior year.

<i>Requirements for the A.B. Degree With Major in Health and Physical Education</i>	<i>General Secondary Credential</i>	<i>Special Secondary Credential</i>	<i>Liberal Arts (Without a teaching credential)</i>
Other Requirements:	<i>Units</i>	<i>Units</i>	<i>Units</i>
*Educ. 113—Psychological and Social Foundations of Education	5	5	—
Educ. 153—Audio-Visual Education	2	2	—
Educ. 175—Core Course in Secondary Education	5	5	—
*Educ. 190PE—Elementary School Physical Education	—	2	2
*Educ. 195PE—The Teaching of Physical Education	2	2	—
Educ. 320C—Directed Teaching—Elementary School Physical Education	—	2	—
Educ. 340A—Directed Teaching—Secondary School Physical Education	—	3	—
Completion of upper division requirements for a minor	0-6	—	—
Electives to total	124	124	124
Total upper division required	40	40	40
Scholarship Requirements:			
In all work taken	1.00	1.00	1.00
In major	1.00	1.00	1.00
In minor	1.00	—	—
In each Education course taken	1.00	1.00	—
For admission to Graduate Division:			
In major	1.5	—	—
In all upper division work taken	1.5	—	—
Graduate Year (General Secondary Credential Only)			<i>Units</i>
P.E. 289 and 299			4-6
Educ. 265—Guidance in Education			2
Educ. 275—Seminar in Secondary Education			2
Educ. 340A-340B—Directed Teaching in the Secondary School			6
Elective in secondary subject field			0-2
Major, or minor or elective (upper division or graduate courses) to total			30
Scholarship requirement (all work in graduate year)			1.75

* Courses starred should be taken during the junior year.

REQUIREMENTS

<i>Junior High School Major *</i>	<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division	Lower Division
H.H. 55 ----- 2 units	H.H. 55 ----- 2 units	H.H. 55 ----- 2 units
P.E. 76 ----- 2 units		
P.E. 70 ----- 2 units	Men	
P.E. 77 ----- 2 units	P.E. 5 ----- $\frac{1}{2}$ unit	A minimum of 19 elective units in courses ap- proved by the Chairman of the Division
	P.E. 9 ----- $\frac{1}{2}$ unit	
	P.E. 11 ----- $\frac{1}{2}$ unit	
	P.E. 12 ----- $\frac{1}{2}$ unit	
	Women	
	P.E. 15 ----- $\frac{1}{2}$ unit	
	P.E. 16A ----- $\frac{1}{2}$ unit	
	P.E. 17A ----- $\frac{1}{2}$ unit	
	P.E. 18A ----- $\frac{1}{2}$ unit	
Upper Division	Upper Division	
Educ. 195PE -- 2 units	P.E. 100-101 -- 4 units	
H.H. 161 ----- 2 units	Educ. 195PE -- 2 units	
P.E. 175 ----- 3 units	P.E. 190 ----- 2 units	
P.E. 100-101 -- 4 units	P.E. 191 ----- 1 unit	
P.E. 190 ----- 2 units		
P.E. 191 ----- 1 unit		
Men	Men	
P.E. 192 ----- 4 units	P.E. 192 ----- 4 units	
Women	Women	
P.E. 193 ----- 4 units	P.E. 193 ----- 4 units	
Totals units required :	26 units	17 units
		21 units

DESCRIPTION OF COURSES

COURSES FOR MEN

Lower Division

5. Freshman Physical Activities $\frac{1}{2}$ unit
 Fundamentals of team and individual sports, together with some achievement tests.
 Required of all freshmen and limited to freshmen.
 Two one-hour periods per week.
6. Team Sports $\frac{1}{2}$ unit
 Touch football, volleyball, and handball.
 Two one-hour periods per week.
7. Team Sports $\frac{1}{2}$ unit
 Basketball, track, and softball.
 Two one-hour periods per week.

* Additional requirements for the junior high school credential are given in detail on pages 63-64.

8. Individual Sports	$\frac{1}{2}$ unit
Boxing, wrestling.	
Two one-hour periods per week.	
9A-9B. Tumbling	$\frac{1}{2}$ unit
Two one-hour periods per week.	
10. Body Building	$\frac{1}{2}$ unit
Two one-hour periods per week.	
11A-11B. Gymnastics	$\frac{1}{2}$ unit
Two one-hour periods per week.	
12A-12B. Trampoline	$\frac{1}{2}$ unit
Two one-hour periods per week.	
50. Intercollegiate Football	1 unit
Varsity and junior varsity teams.	
Daily afternoon practice.	
51. Intercollegiate Basketball	$\frac{1}{2}$ unit
Varsity and junior varsity teams.	
Daily afternoon practice.	
52. Intercollegiate Baseball	1 unit
Varsity and junior varsity teams.	
Daily afternoon practice.	
53. Intercollegiate Track	1 unit
Varsity team.	
Daily afternoon practice.	
54. Intercollegiate Boxing	$\frac{1}{2}$ unit
Two one-hour periods per week.	
89. Boy Scouting Program	2 units
Emphasizes the aims and purposes of Scouting, its character influencing and citizenship training methods, information on how to organize the Scout program, how it is used by local institutions and information and skills of the Scoutmaster.	
Two one-hour periods per week.	

Upper Division

192A. Theory of Athletics	2 units
Coaching techniques in football and basketball.	
Prerequisite: Upper division status.	
Two one-hour periods per week.	
192B. Theory of Athletics	2 units
Coaching techniques in baseball, track and field.	
Prerequisite: Upper division status only.	
Two one-hour periods per week.	
* 194A. Football Officiating	1 unit
The theory and practical application of officiating techniques. Designed to qualify individuals for service as registered officials.	
One two-hour period per week.	
* 194B. Basketball Officiating	1 unit
The theory and practical application of officiating techniques. Designed to qualify individuals for service as registered officials.	
One two-hour period per week.	

* Given if sufficient demand.

COURSES FOR WOMEN

Lower Division

- | | |
|---|--------------------------------------|
| 15. Freshman Physical Activities | $\frac{1}{2}$ unit |
| A course to give the entering student an opportunity to participate in activities which demand and develop fundamental skills, such as running, throwing, catching, and relaxing, in at least one team game, and in activities which help correct the more prevalent deviations from normal body mechanics. | |
| Required of all freshmen women and limited to freshmen. | |
| Two one-hour periods per week. | |
| 16. Team Sports | $\frac{1}{2}$ unit |
| Field hockey, soccer, speedball. | |
| Two one-hour periods per week. | |
| 17. Team Sports | $\frac{1}{2}$ unit |
| Basketball, softball, volleyball. | |
| Two one-hour periods per week. | |
| 18A. Beginning Dance | $\frac{1}{2}$ unit |
| Introduction to modern dance technique. | |
| Two one-hour periods per week. | |
| 18B. Intermediate Dance | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 18C. Advanced Dance | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |

Upper Division

- | | |
|--|----------------|
| 193A. Methods of Teaching Team Sports | 2 units |
| Field hockey, soccer, softball, volleyball, speedball, basketball. | |
| Prerequisite: Previous participation. | |
| 193B. Methods of Teaching Individual Sports | 2 units |
| Tennis, archery, badminton, recreational sports. | |
| Prerequisite: Previous participation. | |

COURSES FOR MEN AND WOMEN

Lower Division

- | | |
|--|--------------------------------------|
| 25. Individual Exercise Program | $\frac{1}{2}$ unit |
| A program of special exercise and activity suited to the individual student. | |
| Two one-hour periods per week. | |
| 27A. Elementary Tennis | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 27B. Intermediate Tennis | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 27C. Advanced Tennis | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 28A. Elementary Archery | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |
| 28B. Advanced Archery | $\frac{1}{2}$ unit |
| Two one-hour periods per week. | |

- 29A. Badminton** 1/2 unit
 Badminton, deck tennis, paddle tennis, table tennis.
 Two one-hour periods per week.
- 29B. Advanced Badminton** 1/2 unit
 Two one-hour periods per week.
- 30A. Elementary Golf** 1/2 unit
 Two one-hour periods per week.
- 30B. Advanced Golf** 1/2 unit
 One two-hour period per week.
- 31. Introductory Social Dancing** 1/2 unit
 An introductory course including both ballroom and folk dancing.
 Two one-hour periods per week.
- 32. Ballroom Dancing** 1/2 unit
 Basic dance techniques; fox trot, waltz, tango, and current routines. Dance etiquette.
- 33. Folk Dancing** 1/2 unit
 Two one-hour periods per week.
- 34. Square Dancing** 1/2 unit
 Two one-hour periods per week.
- 36. Bowling** 1/2 unit
 Two one-hour periods per week.
- 55. Intercollegiate Tennis** 1 unit
 Daily afternoon practice.
- 56. Intercollegiate Golf** 1 unit
 Daily afternoon practice.
- 70. Introduction to Health and Physical Education** 2 units
 The origins, aims and objectives of the modern school program in health and physical education are studied to enable the student to formulate a fundamental background and a basic philosophy for his profession. There is an emphasis on integration with the total school program.
- 76. Principles of Community Recreation** 2 units
 A consideration of the principles involved in developing an ideal program of recreation. Some practical experience in organizing college recreational activities is required.
 Two one-hour periods per week.
- 77. Recreation and Campcraft** 2 units
 Thorough theoretical background and some practical laboratory experience in playground work.
- 88. Club Leadership** 2 units
 History of boys' and girls' club work; the basic principles and conceptions of these movements; the organization of such a program in the community; requirements for adult leadership; summer camps. This course will include practice in laboratory field work.

Upper Division

- 100-101. Major Activities (year)** 2-2 units
 Required of all physical education majors before admission to directed teaching. The object of the course is to develop skill and familiarity with the wide variety of physical education activities suitable for schools and recreation centers. Sound techniques in teaching are emphasized.
 Four one-hour periods per week.

- 151. Kinesiology and Applied Anatomy** 3 units
Study of the anatomy of muscles, bones, joints and of the nervous system as a basis for understanding bodily movement in exercise and sports.
Three one-hour periods per week.
- 152. Methods in Corrective Physical Education** 2 units
The principles underlying good body mechanics; the causes, correction, and prevention of postural defects; methods of relaxation; the place of Corrective Physical Education in the school program; equipment facilities and procedure; fundamentals and practice of massage. Much of the work is practical.
Prerequisite: Physical Education 151.
Two one-hour periods per week.
- 153. Physiology of Exercise** 3 units
The physiological effects of muscular exercise, athletic training and physical conditioning are studied. The significance of these effects are evaluated in terms of performance in physical education activities and interscholastic competition.
Prerequisite: Physiology 1 and Anatomy 66.
Three one-hour periods per week.
- 154. Tests and Measurements in Physical Education** 2 units
The use of tests and measurements in physical education; evaluation of objectives, programs and student achievement through measurement and evaluative techniques.
- 175. History and Principles of Physical Education** 3 units
The evaluating of the history of physical education, the weighing of current problems in the field, the setting up of a code of ethics for professional workers, and the formulating of aims and objectives.
Three one-hour periods per week.
- 178. Departmental Organization and Administration** 2 units
The problems of organization and administration of physical education at the secondary level.
- 190. Elementary School Physical Education** 2 units
(See Educ. 190 PE.)
- 191. Methods in Singing Games and Folk Dances** 1 unit
Participation in and conduct of rhythms suitable for children of the elementary school and junior high school.
Two one-hour periods per week.
- 199. Special Problems** 3 units
Work in special areas not covered by scheduled courses.
Prerequisite: Senior standing with a 2.0 grade index in the major field.

Graduate Division

- 289. Techniques of Research in Physical Education** 2-3 units
Research and investigation in the problems of health, physical education and recreation. Hours to be arranged in terms of the investigation.
- 292. Advanced Coaching Techniques** 2 units
The theory and practice of advanced coaching techniques as related to interscholastic and collegiate competition.
- 299. Problems in Physical Education and Recreation** 3 units
A study of selected problems in physical education and recreation. A survey of current problems facing the physical educator from a review of literature, consideration of trends and analysis and evaluation of school situations.

HEALTH AND HYGIENE

NURSING CURRICULUMS

Graduate nurses from accredited nursing schools with three years of training who hold California certification as registered nurses may be granted the Bachelor of Science degree upon the completion of an approved program of study, as outlined below. Transcripts of record covering the hospital training program should be submitted for evaluation.

The major requirements are presumed to be satisfied by the work in nursing, for which from 30 to 60 units may be allowed.

<i>Require- ments for</i>	<i>B. S. Degree with major in nursing</i>	<i>Graduate nurses</i>	<i>Prenursing students</i>
Major:		Units	Units
Nursing -----		30-60	30-60
General Education:			
Engl. 1A—First-year Reading and Composition -----		3	3
H.E. 20—General Nutrition -----			3
H.H. 1—Personal Health and Safety -----		2	2
Literature, Philosophy or the Arts -----		6	6
(Fine and applied arts not to exceed three of the six)			
Natural Sciences—Electives (see pages 43-44) -----		9	--
Bact. 1—General Bacteriology -----		--	5
Chem. 2A—Introduction to Chemistry -----		--	3
Physiol. 1—Elementary Physiology -----		--	3
Physical Education Activities -----		2	2
Psych. 1—General Psychology -----		3	3
Social Sciences (see page 52) -----		9	9
(Including fulfillment of requirement in United States history and Constitution. See page 52.)			
Spch. 1—Fundamentals of Speech -----		3	3
Restricted Electives -----		8	3
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)			
Other Requirements:			
Anat. 66—Human Anatomy -----		--	3
Electives to bring total to -----		128	128
Scholarship requirement on all work taken -----		1.00	1.00

UNIVERSITY OF CALIFORNIA SCHOOL OF NURSING

Students who expect to enter hospitals maintained by the University of California or Stanford University must conform to the entrance requirements for those institutions, and plan their college programs to meet the undergraduate patterns prescribed. In general, the courses outlined below fulfill the requirements for transfer to the University of California School of Nursing, if the student has no entrance deficiencies. Subject A. (English or English 1A at Humboldt fulfills this requirement.)

Year course *	6 units
Engl. 1A-1B or Spch. 1, and 2 or 3 -----	6 units
Foreign Language *	16 units
Natural Science -----	21 units
(Chemistry 1A, 8, Bacteriology 1, Anatomy 66, Physiology 1)	
Philosophy 6A-6B -----	6 units
Physical Education -----	2 units
Psychology 1 -----	3 units
Political Science 51 and History 70 -----	4 units

* See associate in arts degree requirements of the University of California.

One-year Curriculum

The one-year prenursing program has been outlined to meet the needs of students who wish to take their professional training in one of the nursing schools which require one year of college work as prerequisite to admission.

Recommended Sequence

	<i>Sem. 1</i>	<i>Sem. 2</i>
Anatomy 66 -----	-	3
Bacteriology 1 -----	5	-
Chemistry 2A -----	3	-
English 1A -----	-	3
Home Economics 20 -----	3	-
Physiology 1 -----	-	3
Psychology 1 -----	-	3
Electives -----	4	2
Physical Education -----	$\frac{1}{2}$	$\frac{1}{2}$
	15$\frac{1}{2}$	14$\frac{1}{2}$

REQUIREMENTS

<i>Junior High School Major *</i>	<i>Minor</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division :		
H.H. 55 ---- 2 units	H.H. 1 ----- 2 units	H.H. 55 ----- 2 units
Anat. 66 ---- 3 units	H.H. 55 ----- 2 units	At least 18 additional
H.E. 20 ---- 3 units	H.E. 20 ----- 3 units	units in courses approved
Physiol. 1 -- 3 units		by the Divisional Chair-
P.E. activi- ties ----- 1 unit		man.
Upper Division :		
P.E. 151 --- 3 units	H.H. 160 ----- 3 units	
P.E. 153 --- 3 units	H.H. 161 ----- 3 units	
H.H. 160 --- 3 units		
H.H. 161 --- 3 units		
Total units required 24 units	13 units	20 units

Additional requirements for the junior high school credential are given in detail on pages 63-64.

DESCRIPTION OF COURSES**Lower Division****1. Personal Health and Safety 2 units**

The basic principles of healthful living. Informational personal hygiene with consideration of the physical, mental and social well-being of the individual. Deals with the principles of healthful living and assists students to make a conscious adjustment to their environment.

Safety education and fire prevention are studied in compliance with state requirements.

Two one-hour periods per week.

50. Home Nursing 2 units

Students completing this course and passing the examination will be granted the Red Cross Home Nursing Certificate.

Two one-hour periods per week.

* A liberal arts group major which includes Health and Hygiene may be arranged in consultation with the student's adviser and the Registrar. See page 167.

55. First Aid**2 units**

This course conforms to the standards of the American Red Cross. Lectures, practical demonstrations, and practice periods. Those passing the written tests and practical demonstrations will be recommended for the Standard and Advanced Red Cross First Aid Certificates.

Two one-hour periods per week.

Upper Division**156. Techniques in Athletic Training****2 units**

Care and prevention of athletic injuries, taping, bandaging, massage, manipulation, and heat therapy.

Two one-hour periods per week.

160. Public Health**3 units**

A survey of the field of public health, including disease prevention and control; the social, medical, and economic aspects of sickness and disability, with special emphasis on administrative programs of federal, state, and local health agencies.

Three one-hour periods per week.

161. School Health Program**3 units**

Designed for teachers of health in the public schools. Basic personal, community, and school health problems; content and materials essential in health instruction. Includes techniques of measuring and evaluating health status and health practices.

Two one-hour periods per week.

168. Eye Screening Tests**1 unit**

Techniques and procedures in administering Snellen and Plus Sphere tests. Meets qualification standards for certification of eligibility to administer eye and sight tests by teachers.

199. Special Problems**3 units**

Special problems based on field observations, or related to practice teaching.

Prerequisite: Senior standing and H&H 161.

Related Courses in Other Departments

Anat. 66—Human Anatomy	3 units
Bact. 1—General Bacteriology	3 or 5 units
Biol. 103—Microtechnique	2 or 3 units
H.Ec. 20—Nutrition and Foods	2 or 3 units
H.Ec. 120—Dietetics	3 units
H.Ec. 150—Child Care	2 units
P.E. 151—Applied Kinesiology	3 units
P.E. 152—Methods in Corrective Physical Education	2 units
P.E. 153—Physiology of Exercise	3 units
Physiol. 1—Elementary Physiology	3 or 5 units

THE DIVISION OF LANGUAGE AND LITERATURE

English Language and Literature
Journalism

Foreign Languages and
Literature

OBJECTIVES

The objectives of the Division of Language and Literature are:

1. To offer courses that will enrich cultural and social backgrounds, provide improved use of communication skills, and aid in developing a general background in English for prospective teachers.
2. To provide curricula leading to:
 - a. General secondary credential with majors in English and language arts.
 - b. The A.B. degree with a liberal arts major in English as a basis for graduate study for advanced degrees.
 - c. Professional work in journalism.
3. To enable the student to read and use French or Spanish languages for recreative, cultural, or vocational purposes.
4. To give the student a knowledge of the foreign country and its people.
5. To provide courses for a junior high school major in English, minors in English, journalism, French, and Spanish.

NOTE: Candidates for a general secondary credential with a teaching major in English or Language Arts, or with a teaching minor in English or in Journalism, will be expected to use clear, correct, and fluent English in speech and in writing. Those who do not meet the standards set will take further training in English.

ENGLISH

Requirements for the A.B. Degree with Major in	Language English * English			
	English	Arts	Liberal Arts	Journalism
	with General Secondary Credential		(without a teaching credential)	
Lower Division				
Major:	Units	Units	Units	Units
Engl. 1B—First-year Reading and Composition -----	3	3	3	3
Engl. 46A-46B—Survey of English Literature -----	6	6	6	6
Spch. 2—Oral Interpretation of Litera- ture or Spch. 3—Public Speaking -----	—	3	—	—
Spch. 11—Radio Workshop -----	—	2	—	—
Jn. 20—News writing -----	3	3	—	3
Jn. 21—Reporting -----	—	—	—	3
Jn. 27—Journalism Laboratory -----	—	—	—	3
Jn. 29—Press Photography -----	—	—	—	1

It is recommended that students majoring in this division include foreign language in their programs. In addition, any student who expects to transfer to another institution for upper-division or graduate work should consult the catalog of that institution, particularly in regard to the requirement in foreign language.

General Education: (To be fulfilled in addition to all requirements for the major)

Engl. 1A—First-year Reading and Composition	3	3	3	3
H.H. 1—Personal Health and Safety	2	2	2	2
Literature, Philosophy, or Arts	6	6	6	6
(Fine and applied arts not to exceed three of the six)				

Requirements for the A.B. Degree with Major in	Language English English English English Arts Liberal Arts Journalism			
	with General Secondary Credential		(without a teaching credential)	
Lower Division—Continued				
General Education—Continued:	<i>Units</i>	<i>Units</i>	<i>Units</i>	<i>Units</i>
Natural Sciences ----- (Including one physical and one biological science)	9	9	9	9
Physical Education Activities-----	2	2	2	2
Psych. 1—General Psychology-----	3	3	3	3
Social Sciences ----- (Including fulfillment of requirement in United States history and Constitution. See page 52.)	9	9	9	9
Spch. 1—Fundamentals of Speech-----	3	3	3	3
Restricted Electives ----- (Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language)	8	8	8	8
Other Requirements:				
Or. 2—Orientation 2 -----	1	1	—	—
Completion of lower division requirements for a minor -----	6-20*	6-20	—	—
Upper Division				
Major:				
Engl. 101—Advanced Composition -----	—	3	—	3
Engl. 115—The English Language-----	3	—	—	—
Engl. 136A-136B—American Literature---	6	—	—	—
Engl. 160—Chaucer -----	—	—	3	—
Engl. 162—Shakespeare -----	3	—	3	—
Additional approved courses in English-----	—	—	—	6
Jn. 122—Copyreading -----	—	—	—	3
Jn. 124—Feature Writing-----	—	—	—	3
Jn. 125—Retail Advertising-----	—	—	—	3
Jn. 126—Editorial Writing-----	—	—	—	3
Jn. 127—Journalism Laboratory-----	—	—	—	3
Electives in Upper Division English-----	—	—	18	—
Electives—Chosen from:				
Engl. 112—Phonetics -----	6	—	—	—
Engl. 142A-B—The Novel -----				
Engl. 153—The Age of Elizabeth-----				
Engl. 154—The Age of Swift and Pope-----				
Engl. 155—The Romantic Period-----				
Engl. 157—The Victorian Period-----				
Engl. 160—Chaucer -----	6	—	—	—
Engl. 184—Twentieth Century Literature -----				
Electives—(English, speech, drama, radio or journalism) -----	—	6	—	—
Speech 102—Advanced Expression and Interpretation or Speech 103—Advanced Public Speaking -----	—	3	—	—
Speech 180—Speech Correction -----	—	3	—	—
Speech 126 or 127—Play Production-----	3	3	—	—

* See pages 52-53. Part of the work required for a teaching minor may be completed in the graduate year.

<i>Requirements for the A.B. Degree with Major in</i>	Language English English English Arts Liberal Arts Journalism			
	<i>with</i>		<i>(without a</i>	
	<i>General Secondary Credential</i>		<i>teaching credential)</i>	
Other Requirements:	<i>Units</i>	<i>Units</i>	<i>Units</i>	<i>Units</i>
Educ. 113—Psychological and Social Foundations of Education.....	5	5	—	—
Educ. 153—Audio-Visual Education.....	2	2	—	—
Educ. 175—Core Course in Secondary Education.....	5	5	—	—
Educ. 195E—The Teaching of English.....	2	2	—	—
or Educ. 195Sp—The Teaching of Speech.....	—	(2)	—	—
Completion of upper division requirements for a minor.....	0-6*	0-6*	*	—
Electives to total.....	124	124	124	124
Total upper division required.....	40	40	40	40
Scholarship Requirements:				
In all work taken.....	1.00	1.00	1.00	1.00
In major.....	1.00	1.00	1.00	1.00
In minor.....	1.00	1.00	—	—
In each Education course taken.....	1.00	1.00	—	—
For admission to the Graduate Division:				
In major.....	1.5	1.5	—	—
In minor.....	1.5	1.5	—	—
Graduate Year				
Elective in major field (upper division or graduate).....	3	3	—	—
Educ. 265—Guidance in Education.....	2	2	—	—
Educ. 275—Seminar in Secondary Education.....	2	2	—	—
Educ. 340A-340B—Directed Teaching in the Secondary School.....	6	6	—	—
Elective in secondary subject field.....	3	3	—	—
Major, minor, or elective (upper division or graduate) to total.....	30	30	—	—
Scholarship Requirement (all work in graduate year).....	1.75	1.75	—	—

* See pages 52-53. Part of the work required for a teaching minor may be completed in the graduate year.

REQUIREMENTS FOR THE A.B. DEGREE WITH A MAJOR IN SPEECH AND ENGLISH

(This curriculum is outlined in detail on page 97)

REQUIREMENTS

<i>Junior High School Major *</i>	<i>Minor</i>	<i>Minor in Journalism</i>
Lower Division		Journalism 20--- 3 units
Eng. 1A-1B --- 6 units	Eng. 1A-1B ----- 6 units	Journalism 21--- 3 units
Eng. 46A-46B_ 6 units	Recommended: Eng. 46A-46B.	
Upper Division		Journalism
12 units U. D. English	6 units U. D. English.	(U. D.) ----- 6 units
Recommended:	Recommended:	(May not include more than 3 units in either Journalism 27 or 127.)
Eng. 115 --- 3 units	Eng. 115 ----- 3 units	
Eng. 136A or	Eng. 136A or	
136B ----- 3 units	136B ----- 3 units	
Eng. 162 --- 3 units		
One of the		
later period		
courses -- 3 units		
Total units		
required ---24 units	12 units	12 units
<i>Teaching Minors for Candidates for General Secondary Credential</i>		
<i>English</i>		<i>Journalism</i>
English 1A-1B ----- 6 units	English 1A-1B ----- 6 units	
Other courses approved by	Other courses approved by	
the Divisional Chairman --- 15 units	the Divisional Chairman --- 15 units	
Total units required ----- 21 units	Total units required ----- 21 units	

DESCRIPTION OF COURSES

Lower Division

Engl. X. English Composition **3 units**

A study of the fundamentals of English grammar, usage, punctuation, and mechanics, with some practice in writing. Required of those who fail the test in "Engl. X." Not applicable toward degree requirement in English.

Three one-hour periods per week.

1A. First-year Reading and Composition **3 units**

Emphasis on expository writing, with supplementary reading.

Prerequisite: The passing of the Engl. X test, or a passing grade in the Engl. X course.

Three one-hour periods per week.

1B. First-year Reading and Composition **3 units**

An introduction to the study of literature with further training in writing. Not applicable toward the General Education requirement in Literature, Philosophy, or the Arts.

Prerequisite: English 1A.

† 8. Playwriting **3 units**

See Spch. 30.

* Additional requirements for the junior high school credential are given in detail on pages 63-64.

† Not given in 1953-1954.

46A. Survey of English Literature **3 units**
 The beginning of English literature and the main aspect of its development down to the Restoration (1660).
 Prerequisite: English 1B.
 Three one-hour periods per week.

46B. Survey of English Literature **3 units**
 The leading movements in the development of English literature from the Restoration (1660).
 Three one-hour periods per week.

Upper Division

English 1A-1B is prerequisite to all upper division courses in English.

*** 101. Advanced Composition** **3 units**
 Grammar, usage, and composition for prospective teachers of English.
 Three one-hour periods per week.

108. Advanced Playwriting **3 units**
 See Spch. 130.
 Suggested as an elective; not a part of an English major or minor.

112. Phonetics **3 units**
 See Speech 170.

115. The English Language **3 units**
 A study of tendencies that have changed and are changing the language; designed to give some basis for deciding questions of grammar, usage, and pronunciation.
 Three one-hour periods per week.

136A. American Literature **3 units**
 A study of American literature from Colonial times to the middle of the nineteenth century.
 Three one-hour periods per week.

136B. American Literature **3 units**
 American literature from the middle of the nineteenth century to the present. A study and appraisal of authors and their works contributing to the American scene.

***142A. The Novel** **3 units**
 The English novel from Defoe through Scott. Students will read and study the novel, its origin, its development as a literary form.
 Three one-hour periods per week.

***142B. The Novel** **3 units**
 The English novel from Dickens to contemporary writers. This is a continuation of course 142A, though 142A is not a prerequisite to 142B.
 Three one-hour periods per week.

***153. The Age of Elizabeth** **3 units**
 Prose and poetry, exclusive of the drama.
 Three one-hour periods per week.

***154. The Age of Swift and Pope** **3 units**
 A study of English writers of the Augustan age in relation to the social and political history of the period.
 Three one-hour periods per week.

***155. The Romantic Period** **3 units**
 English literature from 1784 to 1837. The contribution of the poets and prose writers of the romantic revolution to contemporary and modern thought.
 Three one-hour periods per week.

* Not given 1953-54.

157. The Victorian Period**3 units**

English literature from 1837 to 1900. The writings of Carlyle, Arnold, Tennyson, Browning and later Victorians as interpretation of life in the nineteenth century and the present era.

Three one-hour periods per week.

160. Chaucer*3 units****162. Shakespeare****3 units****171. Survey of Drama****3 units**

See Speech 140.

178. Children's Literature**3 units**

A survey course intended to give an understanding and appreciation of the best literature for children of all ages. Required for candidates for the Kindergarten-Primary, the General Elementary and the General Junior High School Credentials. Not applicable toward an English major or minor.

Three one-hour periods per week.

184. Twentieth Century Literature**3 units**

A study of current literary trends, and of leading modern writers in England and America, in selected novels, short stories, and critical essays.

Three one-hour periods per week.

JOURNALISM

NOTE: Ability to type is necessary in all journalism courses.

Students with special interests in journalism are invited to consult with the journalism adviser. Satisfactory degree programs may be arranged with a group major, featuring journalism. (See page 167.) The passing of the English X test or of the English X course is prerequisite to all courses in journalism.

Lower Division**20. Newswriting****3 units**

A study of what constitutes constructive news, of the sources of news, and of the type of writing used in news stories.

Prerequisite: Passing English X examination or the English X course.

Three one-hour periods per week.

21. Reporting**3 units**

The writing of news stories for the college paper and for the college news bureau.

Prerequisite: Journalism 20, or consent of instructor.

Three one-hour periods per week.

27. Journalism Laboratory**1-2 units**

A practical laboratory course under faculty supervision for the staffs of the student publications. Maximum degree credit to be allowed, three units.

Prerequisite: English X and the consent of the instructor.

Three one-hour periods a week per unit.

29. Press Photography**1 unit**

A study of the qualities in photography which are important to reproduction by the various methods of printing.

One one-hour period per week.

Prerequisite: Art 50 and consent of the instructor.

* Not given 1953-54.

Upper Division

- 122. Copyreading** **3 units**
The methods of editing newspaper copy and the writing of headlines.
Prerequisite: Journalism 20.
Three one-hour periods per week.
- *124. Feature Writing** **3 units**
A study of the various types of feature articles and the writing of features by the student.
Prerequisite: Journalism 20.
Three one-hour periods per week.
- 125. Retail Advertising** **3 units**
See Business Administration 125.
Prerequisite: Journalism 20.
Three one-hour periods per week.
- *126. Editorial Writing** **3 units**
Discussion of current news and the writing of editorials on appropriate items.
Prerequisite: Journalism 20.
Three one-hour periods per week.
- 127. Journalism Laboratory** **1-2 units**
A practical laboratory course under faculty supervision for the staffs of the student publications. Maximum degree credit to be allowed, three units.
Prerequisite: Journalism 20 or 27, or consent of the instructor.
Three one-hour periods a week per unit.

* Not given 1953-54.

MODERN LANGUAGES**REQUIREMENTS**

<i>Minor in French</i>		<i>* Minor in Spanish</i>
	<i>Units</i>	<i>Units</i>
Lower Division	French 1A-1B ---- 8 (Two years of high school French may be substituted for 1A)	Spanish 1A-1B ---- 8 (Two years of high school Spanish may be substituted for 1A)
	French 2A----- 3	Spanish 2A----- 3
	French 2B----- 3	Spanish 2B----- 3
Upper Division	----- 9	----- 9
Total units required	19-23	19-23

Teaching Minors for Candidates for General Secondary Credentials

	<i>French</i>	<i>* Spanish</i>
Lower Division	10-14 units (see above)	10-14 units (see above)
Upper Division	12 units	12 units
Total units required	22-26	22-26

FRENCH**Lower Division**

- 1A. Elementary French (fall) 4 units**
 Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.
 Four one-hour periods per week.
- 1B. Elementary French (spring) 4 units**
 Continuation of French 1A.
 Prerequisite: French 1A or two years of high school French.
 Four one-hour periods per week.
- 2A. Intermediate French (fall) 3 units**
 Reading of modern short stories, novels, plays, and works descriptive of French civilization. Review of essentials of grammar, conversation.
 Prerequisite: French 1B or equivalent.
 Three one-hour periods per week.
- 2B. Intermediate French (spring) 3 units**
 Continuation of French 2A.
 Prerequisite: French 2A or equivalent.
 Three one-hour periods per week.

Upper Division

- †101A-101B. Advanced Grammar, Composition, and Reading (year) 3-3 units**
 Review of the fundamentals of grammar; extensive study of advanced syntax; translation into French of moderately difficult English prose; intensive reading of literary texts with reports in French.
 Prerequisite: French 2B or equivalent.
 Three one-hour periods per week.
- 105A-105B. Survey of French Literature (year) 3-3 units**
 A brief survey of French literature from its beginning to the present time. Extensive reading of works of representative authors of all periods.
 Prerequisite: French 2B or equivalent.
 Three one-hour periods per week.

* The minors in Spanish have been temporarily discontinued.

† Not given 1953-54.

SPANISH

Lower Division

- 1A. Elementary Spanish (fall)** 4 units
 Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.
 Four one-hour periods per week.
- 1B. Elementary Spanish (spring)** 4 units
 Continuation of Spanish 1A.
 Prerequisite: Spanish 1A or two years of high school Spanish.
 Four one-hour periods per week.
- 2A. Intermediate Spanish (fall)** 3 units
 Reading of modern short stories, novels, plays, and works descriptive of Latin-American civilization. Review of essentials of grammar, conversation.
 Prerequisite: Spanish 1B or equivalent.
 Three one-hour periods per week.
- 2B. Intermediate Spanish (spring)** 3 units
 Continuation of Spanish 2A.
 Prerequisite: Spanish 2A or equivalent.
 Three one-hour periods per week.

Upper Division

- *101A-101B. Advanced Grammar, Composition and Reading (year)** 3-3 units
 Review of the fundamentals of grammar; extensive study of advanced syntax; translation into Spanish of moderately difficult English prose; intensive reading of literary texts with reports in Spanish.
 Prerequisite: Spanish 2B or equivalent.
 Three one-hour periods per week.
- *105A-105B. Survey of Spanish Literature (year)** 3-3 units
 A brief survey of Spanish literature from its beginning to the present time. Extensive reading of representative authors of Spain and Latin America.
 Prerequisite: Spanish 2B or equivalent.
 Three one-hour periods per week.

GERMAN

Lower Division

- 1A. Elementary German (fall)** 4 units
 Beginners' course. Pronunciation, fundamentals of grammar, reading of simple texts.
 Four one-hour periods per week.
- 1B. Elementary German (spring)** 4 units
 Continuation of German 1A.
 Prerequisite: German 1A or two years of high school German.
 Four one-hour periods per week.

* Not given 1953-54.

THE DIVISION OF NATURAL SCIENCES

Biological Sciences
Physical Sciences

Mathematics
Engineering

OBJECTIVES

The objectives of the Division of Natural Sciences are to provide :

1. A general background in natural sciences for those training to become teachers in the elementary and secondary schools of the State.
2. Curriculums leading to :
 - a. The general secondary credential with major in :
 - (1) Conservation education.
 - (2) Life science and general science.
 - (3) Physical science and general science.
 - (4) Mathematics.
 - b. The B.S. degree in wildlife management and conservation.
 - c. The B.S. degree in fisheries and conservation.
 - d. The A.B. degree in biological sciences, with differentiated majors in biology, botany, and zoology, for :
 - (1) Students interested in research or graduate study in these fields.
 - (2) Candidates for state or federal civil service positions in the biological sciences.
 - e. The A.B. degree in premedical sciences.
3. Lower division preparatory or preprofessional curriculum for students of agriculture, animal and plant science, dentistry, forestry, laboratory technology, nursing, optometry, pharmacy, veterinary science, pollution control.
4. Lower division curriculums in mathematics and physical science for engineering majors.
5. Minors in biology, botany, zoology, chemistry, wildlife management, and mathematics for prospective secondary school teachers.

THE GENERAL SECONDARY TEACHING CREDENTIAL

Teaching majors are available in the fields noted under 2. above. Students desiring the credential in conservation education, will, in general, follow either the Wildlife Management or Fisheries option as given on pages 131-132, or a combination of the two. Their programs will be developed in consultation with the advisor and the division chairman. Students desiring to take a teaching major in mathematics should consult with the division chairman.

NATURAL SCIENCES

Requirements for the A.B. degree leading to the general secondary credential with teaching majors in

Life and General Sciences Physical and General Sciences

Lower Division		
Major:	Units	Units
Chem. 1A-1B—General Inorganic Chemistry-----	10	10
Phys. 2B—General Physics—Lectures-----	3	3
Phys. 3A-3B—General Physics—Laboratory-----	2	2
General Education: (To be fulfilled in addition to requirements for the major)		
Engl. 1A-1B—First-year Reading and Composition-----	6	6
H.H. 1—Personal Health and Safety-----	2	2
Literature, Philosophy, or Arts-----	6	6
(Fine and applied arts not to exceed three of the six.)		
Natural Sciences:		
Biol. 10A-10B—General Biology-----	6	6
Phys. 2A-----	3	3
Physical Education Activities-----	2	2
Psych. 1—General Psychology-----	3	3
Social Sciences-----	9	9
(Including fulfillment of requirement in United States history and Constitution. See page 52.)		
Spch. 1—Fundamentals of Speech-----	3	3
Restricted Electives-----	8	8
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)		
Other Requirements:		
Educ. 50A—Introduction to Education-----	1	1
Completion of lower division requirements for a teaching minor-----	6-20	6-20

Upper Division

Major:	Units	Units
Total units required-----	(20)	(20)
Physiol. 101—Human Physiology-----	5	5
Electives-----	15	15
Chosen from the following courses upon consultation with the adviser:		
Bact. 101—Bacteriology-----	x	-
Biol. 101—Marine Biology-----	x	-
Biol. 103—Microtechnique-----	x	-
Biol. 114—Heredity and Evolution-----	x	-
Bot. 107—Plant Ecology-----	x	-
Bot. 110A-110B—Plant Taxonomy-----	x	-
Bot. 114—Advanced Ornamental Plants-----	x	-
Chem. 105—Quantitative Analysis-----	x	x
Chem. 108—Organic Chemistry Lectures-----	x	x
Chem. 109—Organic Chemistry Laboratory-----	x	x
Phys. 104-A-B-C—Advanced General Physics-----	-	x
Phys. 105—Electrical Measurements-----	-	x
Phys. 135—Statics-----	-	x
Phys. 150—Advanced Radio-----	-	x

Requirements for the A.B. Degree leading to the general secondary credential with teaching majors in

*Life and General Physical and General
Sciences Sciences
(General Secondary Credential)*

Upper Division—Continued

	Units	Units
Phys. 151—Electronics	-	x
Zool. 104—Field Zoology	x	-
Zool. 112—Invertebrate Zoology	x	-
Zool. 114—Comparative Anatomy of Vertebrates	x	-
Zool. 135—Mammalogy	x	-
Zool. 160—Embryology	x	-
Zool. 165—Ornithology	x	-
Zool. 170—Entomology	x	-
(Six units of nonprofessional courses in Wildlife Management may be substituted for six units of the courses listed above.)		

Other Requirements:

Educ. 113—Psychological and Social Foundations of Education	5	5
Educ. 153—Audio-Visual Education	2	2
Educ. 175—Course in Secondary Education	5	5
Educ. 195S—The Teaching of Science	2	2
Completion of upper division requirements for a minor	0-6†	0-6†
Electives to total	124	124
Total upper division required	40	40

Scholarship Requirements:

In all work taken	1.00	1.00
In major and minor	1.00	1.00
In each education course taken	1.00	1.00
For admission to Graduate Division:		
In major	1.5	1.5
In all upper division work taken	1.5	1.5

Graduate Year

Educ. 265—Guidance in Education	2	2
Educ. 275—Seminar in Secondary Education	2	2
Educ. 340A-340B—Directed Teaching in the Sec- ondary School	6	6
Electives in secondary school subject-field (upper division or graduate)	6	6
Major, minor and electives (upper division or graduate courses) to total at least	30	30
Scholarship requirement (all work in graduate year)	1.75	1.75

* Starred courses are recommended but not required.

† See pages 52-53. Part of the work required for a teaching minor may be completed in the graduate year. Students majoring in physical and general sciences are required to complete a teaching minor in mathematics.

BIOLOGICAL AND PREMEDICAL SCIENCES

Requirements for the A.B. Degree with majors in

	<i>Liberal Arts</i>			
	<i>Biology</i>	<i>Botany</i>	<i>Zoology</i>	<i>Premedical</i>
	<i>(Without a teaching credential)</i>			
Biological Sciences:	<i>Units</i>	<i>Units</i>	<i>Units</i>	<i>Units</i>
Major:				
Biol. 10B—General Biology-----	3	—	—	—
Bot. 1B—General Botany-----	—	4	—	—
Chem. 1A-1B—General Chemistry-----	10	10	10	10
Phys. 3A-3B—General Physics Laboratory	2	2	2	2
Zool. 1B—General Zoology-----	—	—	4	4
General Education: (To be fulfilled in addition to all requirements for the major)				
Engl. 1A-1B—First-year Reading and Composition-----	6	6	6	6
H.H. 1—Personal Health and Safety-----	2	2	2	2
Literature, Philosophy or the Arts-----	6	6	6	6
(Fine and applied arts not to exceed three of the six)				
Natural Science:				
Phys. 2A-2B—General Physics Lecture	6	6	6	6
Biol. 10A—General Biology-----	3	—	—	—
Bot. 1A—General Botany-----	—	4	—	—
Zool. 1A—General Zoology-----	—	—	4	4
Physical Education Activities-----	2	2	2	2
Psych. 1—General Psychology-----	3	3	3	3
Social Sciences-----	9	9	9	9
(Including fulfillment of requirement in United States history and constitution. See page 52.)				
Spch. 1—Fundamentals of Speech-----	3	3	3	3
Restricted Electives-----	5	5	5	5
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)				
Other Requirements:				
Foreign Language-----	—	—	—	10 *

* Starred courses are recommended but not required.

Requirements for the A.B. Degree with majors in

	Liberal Arts			
	Biology	Botany	Zoology	Premedical
	(Without a teaching credential)			
Minimum units required.....	(24*)	(24)	(24)	(24)
(Required courses are indicated by unit value; acceptable courses by letter "x." Zoology majors must complete at least three courses from those marked "3x" or "5x")				
	Upper Division			
Major:	Units	Units	Units	Units
Bact. 101—Bacteriology	x	x	x	x
Biol. 101—Marine Biology	x	x	x	—
Biol. 103—Micro-Technique	x	x	x	3
Biol. 114—Heredity and Evolution.....	3	3	3	3
Biol. 199—Special Problems in Biology....	x	—	—	—
Bot. 107—Plant Ecology	x	x	—	—
Bot. 110A-110B—Plant Taxonomy	x	x	—	—
Bot. 114—Advanced Ornamental Plants ..	x	x	—	—
Bot. 199—Special Problems in Botany....	x	x	—	—
Physiol. 101—Human Physiology	5	x	5x	5
Fish. 136A-136B—Ichthyology	x	—	x	—
Fish. 141—Hydrobiology	x	—	x	—
Zool. 104—Field Zoology	x	—	3x	x
Zool. 114—Comparative Anatomy of Vertebrates	x	—	3x	3
Zool. 135—Mammalogy	x	—	x	—
Zool. 160—Embryology	x	—	3x	3
Zool. 165—Ornithology	x	—	x	—
Zool. 170—Entomology	x	x	x	x
Zool. 199—Special Problems in Zoology....	x	—	x	—
Elective in Biological Sciences	—	—	—	3
(Six units of nonprofessional courses in wildlife management may be substituted for six units of the courses listed above, for biology and zoology majors.)				
Chem. 105—Quantitative Analysis	—	—	—	3
Chem. 108—Organic Chemistry Lectures ..	3	3	3	3
Chem. 109—Organic Chemistry Laboratory ..	—	—	—	3
Electives to total	124	124	124	124
Total upper division required	40	40	40	40

Scholarship requirements:

In all work taken.....	1.00	1.00	1.00	1.00
In major	1.00	1.00	1.00	1.00

Note for Premedical Students—

Minimum requirements for admission to Class A medical colleges have been set up by the Council on Medical Education of the American Medical Association. Most medical schools, however, set up admission standards in excess of these minimums. For premedical students, a broad general education is prescribed, with emphasis on biological and physical sciences. This is probably best done by completing the requirements for a bachelor's degree before entering medical school. In some instances, students will be accepted by medical schools after the completion of 90 semester units of college work which includes the required courses.

The student should check the institutional requirements of the medical school he expects to enter. If he expects to transfer to the University of California, he should follow the requirements for their associate in arts degree, and must also include 8 units in a modern foreign language as part of the 16 units required.

* Biology majors should not take more than 15 units in either zoology or botany.

Since acceptance by the medical school is conditioned largely upon scholarship, particularly in the required subjects, premedical students are urged to bear in mind the importance of distinctly high scholarship in the undergraduate work.

Many medical schools are now requiring all candidates to have taken the medical college admission test during the year previous to expected admission. The student should consult his adviser about this test.

The prescribed course of study meets the standards established by the American Medical Association as well as the requirements for graduation from this college.

WILDLIFE MANAGEMENT AND FISHERIES

High school students who plan to pursue wildlife management and fisheries will find it advantageous to have completed elementary algebra, plane geometry, and trigonometry in high school.

Junior college or transfer students who plan to enroll in wildlife management and fisheries will be able to complete the course in a minimum amount of time if elementary algebra, plane geometry, trigonometry, general chemistry, English, statistics, general botany, and/or general zoology have been completed in the lower division.

Requirements for B.S. Degree with Major in		Wildlife Management	Fish- eries
Lower Division			
Major:		<i>Units</i>	<i>Units</i>
W.M. 2—Natural Resource Conservation	-----	3	3
W.M. 5—Wildlife Techniques	-----	3	—
W.M. 20—Principles of Wildlife Management	-----	3	3
F. 30—Hatchery Biology	-----	—	2
Bot. 1B—General Botany	-----	4	4
Chem. 1B—General Chemistry	-----	5	5
Zool. 1A-1B—General Zoology	-----	8	8
General Education (to be fulfilled in addition to all requirements for the major.)			
Engl. 1A-1B—First-year Reading and Composition	-----	6	6
H.H. 1—Personal Health and Safety	-----	2	2
Literature, Philosophy or Arts	-----	6	6
(Fine and applied arts not to exceed three of the six)			
Natural Sciences	-----	9	9
Bot. 1A—General Botany	----- (4)		
Chem. 1A—General Chemistry	----- (5)		
Physical Education Activities	-----	2	2
Psych. 1—General Psychology	-----	3	3
Social Sciences	-----	9	9
(In at least two social science fields, including:			
Econ. 1A—Principles of Economics			
Econ. 40—Elementary Statistics			
Fulfillment of requirement in United States history and constitution. See page 52.)			
Spch. 1—Fundamentals of Speech	-----	3	3
Restricted Electives	-----	5	5
(Chosen from the above general education fields or from mathematics, family life education, or not more than six units of foreign language.)			
Other Requirements:			
Agrie. 1—Agronomy	-----	3	—

<i>Requirements for B.S. Degree with Major in</i>		<i>Wildlife Management</i>	<i>Fish-eries</i>
Upper Division			
Major:		<i>Units</i>	<i>Units</i>
F. 131—Management of Game Fish	-----	-	3
F. 132—Commercial Fisheries	-----	-	3
F. 136A-136B—Ichthyology	-----	-	6
F. 141—Hydrobiology	-----	-	4
W.M. 150—Management of Big Game	-----	3	-
W.M. 152—Management of Fur Bearers	-----	3	-
W.M. 171A—Management of Waterfowl	-----	3	-
W.M. 171B—Management of Upland Game Birds	-----	3	-
W.M. 199—Special Problems	-----	1-3	-
Fish. 199—Special Problems	-----	-	1-3
Biol. 101—Marine Biology (or Zool. 112, Invertebrate Zoology)	-----	-	3
Biol. 114—Heredity and Evolution	-----	3	3
Bot. 110A-110B—Plant Taxonomy	-----	6	-
Physiol. 101—Human Physiology	-----	3	5
Zool. 114—Comparative Anatomy of Vertebrates	-----	-	3
Zool. 135—Mammalogy	-----	3	-
Zool. 160—Embryology	-----	-	3
Zool. 165—Ornithology	-----	3	-
Zool. 170—Entomology	-----	3	-
Other Requirements:			
Agric. 104—Range and Farm Livestock Management	-----	3	-
Electives to total	-----	128	128
Scholarship Requirements:			
In all work taken	-----	1.00	1.00
In major	-----	1.00	1.00

Recommended Electives (Wildlife Management):

Additional English composition, journalism, speech, plant ecology, wildlife administration, law enforcement, typing, comparative anatomy of vertebrates, organic chemistry, trigonometry, embryology, nutrition, elementary photography, radio workshop, intermediate algebra, entomology.

Recommended Electives (Fisheries):

Advanced marine biology, human anatomy, micro-technique, business correspondence, organic chemistry, nature drawing, typing.

REQUIREMENTS

<i>Junior High School Major in Biological Science*</i>	<i>Minor for Candidates for General Secondary Credential†</i>	
Lower Division	A minimum of 20 units in courses approved by the divisional chairman.	
Biol. 10A-10B 6 units	Biological Science	Physical Science
Electives ---- 6 units	Biol. 10A-10B 6 units	Chem. 1A-1B 10 units
Upper Division	Physiol. 1 or 101	or
12 units of Upper Division Biology, Botany, or Zoology ----- 12 units	3-5 units	Chem. 2A-2B 6 units
	Biol. 101 ---- 3 units	Phys. 2A-2B 6 units
	Bot. 110A ---- 3 units	Phys. 3A-3B 2 units
	Zool. 135 ---- 3 units	Phys. 150 ---- 3 units
	Zool. 165 ---- 3 units	Geol. 1A ---- 3 units
Total units required --- 24 units	Total units required --- 20 units	Total units required --- 20 units

* Additional requirements for the junior high school credential are given in detail on pages 63-64.

† The sequences of courses given are examples of approved minors.

LIBERAL ARTS MINORS

<i>Biology Minor</i>		<i>Botany Minor</i>	
Lower Division		Botany 1A-1B	8 units
Biology 10A-10B	6 units		
Upper Division			
Chosen from:		Chosen from:	
Biology		Biol. 101	
Botany, or		Biol. 114, or	
Zoology	6 units	Any U. D. Botany	6 units
Total units required	12 units	Total units required	14 units

The Biology minor is recommended for credential candidates but is not advised for students planning to do graduate work at a university.

<i>Zoology Minor</i>		<i>Chemistry Minor</i>	<i>Wildlife Management Minor</i>
Lower Division		Chemistry	Six units, including
Zoology 1A-1B	8 units	1A-1B	W. M. 2
or			
Biology			
10A-10B	6 units		
and Elective	3 units		
Upper Division			
6 units chosen from—		Chemistry 108	Six units, including
Any U. D. Zoology		105	W. M. 120
Biology 101		or	
Biology 114	6 units	Chemistry 109	Consult department for
			choice of courses
Total units		Total units	Total units
required	14-15 units	required	required
		16 units	12 units

DESCRIPTION OF COURSES

BIOLOGICAL SCIENCES

NOTE: A maximum of 16 semester units will be allowed toward the bachelor's degree in the introductory year courses in biology, botany, and zoology.

AGRICULTURE

Ag. 1. Soils and Pasture Management *3 to 6 units

Selection of a dairy farm; soils and soil maintenance, including tillage, erosion control, and fertilization; irrigation; drainage; cover crops; forage and root crops; hay judging and seed grading. Correlated with actual work experience on selected dairy farms.

Ag. 12. Animal Diseases and Physiology 3 units

Livestock health problems, infections, diseases, parasites, and malnutrition. Elementary principles of animal structure and functions, including the physiology of milk secretion.

Ag. 15. Feeds and Feeding 6 units

Feeds appropriate to dairy cattle; food nutrients and a balanced ration; root and forage crops as dairy feed; costs of feeding. Correlated with actual work experience on selected dairy farms.

Ag. 20. Introduction to the Dairy Industry 6 units

Orientation to dairying; breeds of dairy cattle; selection of dairy cattle; breeding of dairy cattle; genetics as applied to dairy cattle; judging of dairy cattle; fitting and showing dairy cattle. Herd management.

* Wildlife management students take this course, without the work experience, for 3 units.

Ag. 21. Dairy Management**2 units**

Ownership of property, insurance, employer-employee relationships; contracts, leases, and banking procedures; problems in marketing.

Ag. 22. The Dairy Industry**6 units**

Milk testing; sanitation and bacteriology for dairies; pasteurization; properties and composition of milk; judging milk and milk products; market milk; milk processing methods; milk products—butter, cheese, powdered milk, evaporated milk, ice cream; legal requirements for milk and dairies; correlated with actual work experiences on selected dairy farms. Milk production.

Ag. 30A. Farm Mechanics A**3 units**

Planning of dairy buildings and principles of framing and construction. Elements of plumbing, electrical wiring, sheet metal, concrete work, painting.

Ag. 30B. Farm Mechanics B**3 units**

Use, care, and maintenance of milking machines, separators, refrigeration, and steam boilers in dairying. Use, care, and maintenance of various tractors and farm implements. Welding.

104. Range and Farm Livestock Management (fall)**3 units**

General principles and practices underlying the management of range and farm livestock.

Three one-hour periods per week.

Prerequisite: Agriculture 1.

ANTHROPOLOGY**1A. Physical Anthropology (fall)****3 units**

The origin and development of human races, the nature of man, and his place in the biological world.

Three one-hour periods per week.

BACTERIOLOGY**Lower Division****1. General Bacteriology (spring)****3-5 units**

Morphology, physiology, and classifications of bacteria, yeasts and molds. Laboratory training in micro-technique, preparation or culture media, sterilization, inoculation, identification. Bacteriology of air, water, soil, and dairy products. The rudiments of infection and bacterial diseases.

Three one-hour lectures and two three-hour laboratory periods per week.

Upper Division**101. General Bacteriology****3-5 units**

Upper division students may receive upper division credit for Bacteriology upon the consent of the instructor and the completion of assigned individual problems.

BIOLOGY**Lower Division****10A-10B. General Biology (year)****3-3 units**

An outline of the main facts and principles of plant and animal life. Lectures and demonstrations on the fundamental properties of living things; their functions, structures, classifications, life histories, and relation to human life.

Not to be taken concurrently with, or subsequently to either Zoology 1A-1B or Botany 1A-1B.

Two one-hour periods and one three-hour laboratory period per week.

Upper Division

Prerequisite to all upper division biology courses is either Biology 10A-10B, Botany 1A-1B, or Zoology 1A-1B.

101. Marine Biology (summer session) 3 units

The habits, classification, development, and adaptations of marine life, with particular reference to conditions of the Humboldt coast.

Two one-hour lectures and one three-hour laboratory period or field trip per week.

103. Microtechnique (fall) 2 or 3 units

Preparation of plant and animal tissue for microscopical study, including killing, fixing, staining, and sectioning methods.

Two or three three-hour periods per week.

107. Ecology 3 units

A study of the important principles governing the relationships between plants, animals and their environment. Consideration of specific marine, shore, dune and forest communities in the Humboldt Bay area. Week-end field trips are an essential part of the course.

Three one-hour periods per week, and field trips.

114. Heredity and Evolution (fall) 3 units

The facts of heredity and Mendel's laws with the application of these laws to plants and animals, including man, are taken up through lectures and assigned reading. Study is made of the various theories of evolution.

Three one-hour periods per week.

190. Elementary School Science 2 units

(See Education 190S)

Objectives, methods, and content of the elementary school science program.

Not applicable toward major or minor.

Two one-hour periods per week.

199. Special Problems (fall, spring) 1-3 units

Limited to majors in biological sciences. Student and problem to be approved by the department. Student carries on independent study and investigation in consultation with instructor assigned to him.

BOTANY

NOTE.—Arcata is an excellent location for all kinds of botanical study. Ocean reefs are located within four miles, a heavy coniferous forest adjoins the campus on the east, and within forty miles one may reach all altitude ranges from sea level to five thousand feet.

Botany courses are fundamental for all students in the plant sciences and are basic courses for such occupations as the following: plant pathologist, bacteriologist, forester, forest pathologist, farm adviser, high school science teacher, agriculturist, nurseryman, landscape gardener or architect, florist, seedsman, horticulturist, etc.

The facilities of the department include well equipped laboratories, an herbarium of local flora, and a greenhouse.

Lower Division

1A-1B. General Botany (year) 4-4 units

First semester: The fundamentals of the morphology and physiology of flowers, fruit, seeds, seedlings, roots, stems, and leaves.

Second semester: Lower orders of plants, introduction to the taxonomy of the flowering plants.

Field trips will be made to points near the College, and a large part of the material used in the laboratory will be collected by the students.

Two one-hour lectures and two three-hour laboratory periods per week.

11. Dendrology and Wood Technology 4 units

Development of forests; trees and shrubs in the United States, with particular emphasis on the trees of Northern California—including local hardwoods; consideration of trees that are of commercial importance; range, botanical characteristics of trees; wood structures; wood properties; specific uses of various woods.

Upper Division

Prerequisite to all upper division courses in Botany is Botany 1A-1B, or Biology 10A-10B and consent of instructor.

110A-110B. Plant Taxonomy (year) 3-3 units

First semester: Forest botany with field identification, and a critical study of the characters and habitats of gymnosperms.

Second semester: A study of representative orders of flowering plants, adaptation, structure, classification, and geographical distribution; range botany.

One one-hour lecture and two three-hour laboratory periods per week.

114. Ornamental Plants 3 units

Study of the more common ornamental trees and shrubs, with principles of landscaping. Greenhouse work in various methods of propagation, potting, culture, etc.

One lecture and two three-hour laboratory periods per week.

199. Special Problems 1-3 units

Individual work in botany for upper division students who show special aptitude. Conference, reading, and research.

FISHERIES**Lower Division****30. Hatchery Biology 2 units**

The artificial propagation of trout, salmon, and steelhead; water manipulation, and disease control. Laboratory periods are conducted in the fish hatchery. Each student will have the personal responsibility for rearing several thousand fish.

Three one-hour periods per week.

Upper Division**131. Management of Game Fish 3 units**

The fresh-water game fishes of North America with special reference to trout and salmon. Stream and lake management and farm fish pond management.

Two one-hour lectures and one three-hour laboratory period per week.

132. Commercial Fisheries 3 units

The biology and management of important marine fish and shellfish. Trips at sea on commercial vessels to observe harvesting methods.

Two one-hour lecture periods and one three-hour laboratory period per week.

Prerequisite: Consent of the instructor.

136A-136B. Ichthyology (year) 3-3 units

The classification, evolution, distribution, anatomy, physiology, and ecology of fishes. Particular attention to groups that are of economic and recreational importance.

Two one-hour lectures and one three-hour laboratory period per week.

Prerequisite: Zool. 1A-1B.

141. Hydrobiology 4 units

The study of the relationships between aquatic organisms and their environment. Deals with physical, chemical, and biological phenomena of fresh and marine waters.

Stream and lake surveys and pollution studies are included in field work.

Two one-hour lectures and two three-hour laboratory periods per week.

Prerequisite: Chem. 1A or Chem. 2A.

199. Special Problems 1-3 units

Individual study on selected problems in the fisheries field for upper division students who have demonstrated outstanding ability and interest.

FORESTRY-LUMBERING**Lower Division****1. Introduction to the Lumber Industry 3 units**

History of the lumber industry; development of forestry as a profession; aspects of the lumber industry in forest, mill, market; basic economic feature of the industry, such as size, location, competitive aspects; job possibilities in the various branches of federal, state, and private forestry and lumber industries.

10. Forest Protection

3 units

Importance of protecting forests from fires; factors affecting forest situation; causes of fires and means of prevention; fire detection systems; methods of suppression and control of fires; tree diseases and tree killing insects.

20. Forest Management

3 units

Aims of forest management; financing of forest operations; preparation and implementation of plans for conservation and perpetual yield; understanding of the basic principles of silviculture; techniques of conservation.

30. Woods Operations

3 units

Planning of woods operations; methods of rigging and logging; characteristics of saw logs, veneer logs, and pulp logs; operation and maintenance of logging machines.

40. Forest and Lumber Mensuration

2 units

Methods of measuring the volume and growth of standing trees and lumber hands; measuring the contents of felled timber; deck scaling; profitable log lengths.

50. Principles of Lumber Manufacturing

4 units

Principles of manufacture of lumber products; mill pond operation; dry log storage; methods of sawing logs; remanufacturing methods; operation and maintenance of machines used in lumber manufacture; seasoning of wood including kiln operation; personnel management; plant management; abatement of the smoke nuisance; plant transportation problems.

55. Lumber Grading

2 units

Lumber grading rules and their application; uses for the various grades of lumber.

60. Wood Products

3 units

Relation of the tree to what it will produce; pulp and paper, poles, posts; chemical utilization of wood; wood preservation methods; gluing of woods; plywood and wood substitutes; uses of woods and mill residues.

PHYSIOLOGY AND ANATOMY

Lower Division

1. Elementary Physiology

3-5 units

A general introductory course on human physiology. (May be taken as a lecture course only, for three units.)

Three one-hour lectures and two three-hour laboratory periods per week.

66. Human Anatomy

3 units

Demonstration and laboratory study of human dissections, models, and prepared microscopic slides. Designed particularly for nurses and Physical Education majors.

Prerequisite: Zoology 1A.

Three one-hour lectures per week.

Upper Division

101. Human Physiology

3-5 units

A more advanced course for upper division students.

153. Physiology of Exercise

3 units

See PE 153.

WILDLIFE MANAGEMENT

Lower Division

2. Natural Resource Conservation

3 units

The broad aspects of natural resource conservation, with stress on the interaction of the many agencies concerned; modern conservation methods, and the history of wildlife management. Organized to provide teachers with materials for teaching good conservation habits.

Three one-hour periods per week.

5. Wildlife Techniques**3 units**

Designed to teach wildlife students the diversified and practical duties required of them. Collection, preparation of museum specimens, evidence collection, fishing and trapping techniques, census methods, and firearms safety.

Two one-hour lectures and one three-hour laboratory period per week.

20. Principles of Wildlife Management**3 units**

An intensive study of wildlife management practices. The theory and application of scientific research as it applies to game animals. Measurement of game and fish populations and productivity. Economic aspects of game populations. Basic wildlife philosophy. One-hour lecture and approximately six hours of laboratory.

Upper Division**150. Management of Big Game****3 units**

Species of big game mammals; their life histories, distribution, management, conservation, values. Field trips for the study of important species in their natural habitats.

Two one-hour lectures and one three-hour laboratory period per week.

Prerequisite: Zoology 135 and W.M. 20.

152. Management of Furbearers**3 units**

Species of furbearers; their life histories and management, with practical fur farm training. Emphasis on wild species.

Two one-hour lectures, one three-hour laboratory period per week.

Prerequisites: W.M. 20 and Zool. 1A-1B.

171A. Management of Waterfowl**3 units**

Waterfowl, and allied species, their life histories, ecology, and management in North America. Operation of duck banding station along with practical study of the important waterfowl food and cover plants. Refuge administration, practices, and management.

Two one-hour lectures, and one three-hour laboratory period per week.

Prerequisite: W.M. 20 and Zool. 1A-1B.

171B. Management of Upland Game Birds**3 units**

Upland game birds, their life histories and management in the United States. Liberation, population estimates and rearing. Each student will have a personal responsibility in rearing about 800 pheasants a season in the college rearing pens.

Two one-hour lectures, one three-hour laboratory period per week.

Prerequisite: Zoology 165 and W.M. 20.

180. Wildlife Administration**2 units**

Organization, financing and supervision of federal, state and private wildlife programs. Analysis of wildlife problems and public relations. Study of administrative practices, procedure and personnel management.

Two one-hour periods per week.

Prerequisite: Senior standing.

199. Special Problems**1-3 units**

Individual study on selected problems in the Wildlife field for upper division students who have demonstrated outstanding ability and interest.

NOTE: For Game Law Enforcement, see Sociology 8, Sociology 108.

ZOOLOGY**Lower Division****1A-1B. General Zoology (year)****4-4 units**

A year course dealing with principles of animal biology together with a review of representative animal forms.

Two one-hour lectures and two three-hour laboratory periods per week.

Upper Division

Prerequisite to all upper division courses is Zoology 1A-1B, or Biology 10A-10B and consent of instructor.

104. Field Zoology 3 units

Collection, identification, and preservation of common invertebrates and vertebrates of Humboldt Bay region. Discussion of ecological relationships. Each student works on an individual problem.

Two one-hour lectures and one three-hour laboratory period per week.

*112. Invertebrate Zoology 3 units

A study of animals without backbones, with special reference to the natural history and classification of the animals of the seashore.

Two one-hour lectures and one three-hour laboratory period per week.

*114. Comparative Anatomy of Vertebrates 3 units

Two one-hour lectures and one three-hour laboratory period per week.

135. Mammalogy 3 units

Study of the classification, anatomy, distribution, and life histories of mammals.

Two one-hour lectures and one three-hour laboratory period per week.

160. Embryology 3 units

The maturation of egg and sperm; fertilization; and the early development of the amphibian, chick, and mammal.

One one-hour lecture and two three-hour laboratory and demonstration periods per week.

165. Ornithology 3 units

Classification, life histories, migration, habits, and special modifications of birds. Identification in field and laboratory.

Two one-hour lectures and one three-hour laboratory period per week.

170. Entomology 3 units

The classification, life histories, distribution, and control of insects, with special application to agriculture, game and fish management.

Two lectures and one three-hour laboratory period.

199. Special Problems 1-3 units

Individual work in zoology for upper division students who show special aptitude. Conference, reading, and research.

Graduate Division

Biology 201A-201B. Advanced Field Biology 3-3 units

Original study on special topics in the field and laboratory. Research on life histories, distributional problems, and classification. (Special attention paid to the life of the area between Mad River and the Trinity River.)

Botany 212. Marine Algae 3 units

Taxonomy, life histories, and relationships of the marine algae of the Pacific Coast.

Zoology 212. Advanced Marine Biology 3 units

An advanced course dealing with problems in marine ecology, classification, and life histories.

* Not given 1953-54.

PHYSICAL SCIENCES**5A-5B. Fundamentals of the Physical Sciences (year) 3-3 units**

First Semester: Astronomy and weather, light and sound, geology.

Second Semester: Practical application; communication; transportation.

5A is not prerequisite to 5B.

Two one-and-one-half-hour lectures or demonstration periods per week.

CHEMISTRY

A maximum of 10 units will be allowed toward the bachelor's degree in lower division general chemistry.

Lower Division**1A-1B. General Inorganic Chemistry (year) 5-5 units**

The fundamental concepts of chemistry, with emphasis on the relation of chemical behavior to atomic structure.

Prerequisites: High school chemistry or physics, and at least two years of high school mathematics; or four years of high school mathematics.

Three one-hour lecture and two three-hour laboratory periods per week.

2A-2B. Introduction to Chemistry (year) 3-3 units

An elementary course in general chemistry, designed for majors in nursing, physical education, and home economics. Emphasis on chemical principles rather than mathematical applications.

Two lectures and one three-hour laboratory period per week.

(Chemistry 2B will be given only in alternate years).

Upper Division**105. Quantitative Analysis 3 units**

Principles and methods of quantitative analysis. Study of methods used in industrial, agricultural and medical work.

One lecture and two three-hour laboratory periods per week.

Prerequisite: Chemistry 1B with grade of "C" or higher.

108. Organic Chemistry Lectures 3 units

A survey of the carbon compounds.

Prerequisite: Chemistry 1A or Chemistry 2A-2B.

Three one-hour lecture periods per week.

109. Organic Chemistry Laboratory (spring) 3 units

Study of the carbon compounds in the laboratory. Taken concurrently with or following Chemistry 108.

Three three-hour laboratory periods per week.

GEOLOGY**1A. General Geology 3 units**

A survey of the nature and structure of the material composing the earth and of the various processes which have shaped or are still shaping the earth.

Three one-hour periods per week and field trips.

PHYSICS**Lower Division**

A maximum of 12 units will be allowed toward the bachelor's degree in lower division general physics.

2A-2B. General Physics Lecture (year) 3-3 units

A general survey of physics for nonengineering students. Less emphasis is placed on the quantitative aspect of the subject and the mathematical treatment is minimized.

Three one-hour lecture and demonstration periods and one one-hour discussion period per week.

Prerequisite: Mathematics C. (May be taken concurrently.)

- 3A-3B. General Physics Laboratory (year)** **1-1 unit**
 Experimental work in mechanics, properties of matter, heat, sound, light, magnetism, and electricity. To accompany Physics 2A-2B.
 One three-hour laboratory period per week.
- 4A. General Physics** **4 units**
 Mechanics and properties of matter.
 Three lectures and one three-hour laboratory period per week.
 Prerequisite: Mathematics 3A-3B, or its equivalent.
 Mathematics 3B may be taken concurrently.
- 4B. General Physics** **4 units**
 Magnetism, electricity, and modern physics.
 Prerequisite: Physics 4A. Mathematics 4A or 104A may be taken concurrently.
 Three lectures and one three-hour laboratory period per week.
- 4C. General Physics** **4 units**
 Wave motion, heat, sound, and light.
 Prerequisite: Physics 4A. Mathematics 4B or 104B may be taken concurrently.
 Three lectures and one three-hour laboratory period per week.
- 20. Elementary Photography** **3 units**
 See Art 50.
- 21. Advanced Photography** **2 or 3 units**
 See Art 51.
- 30. Elementary Meteorology** **3 units**
 Absorption and distribution of solar energy; structure and dynamics of the atmosphere; and methods of recording and predicting the weather. Designed especially for students in aeronautics.
- 50. Introduction to Radio** **3 units**
 Sound and radio waves. Theory and operation of oscillators, amplifiers, rectifiers, frequency meters, vacuum tubes, cathode ray oscilloscopes, and continuous wave radiation equipment. Laboratory work in circuit design, testing, and operation.
 One lecture and two three-hour laboratory periods per week.
 See Industrial Education 50.

Upper Division

- 104A-104B-104C. General Physics** **4-4-4 units**
 See Physics 4A-4B-4C. For General Secondary Credential candidates only.
- 105. Electrical Measurements** **3 units**
 Theory and practice in methods of measurement of resistance, electromotive force, capacitance, inductance and frequency; using direct current, and alternating current of both audio and radio frequency.
 Nine hours of laboratory periods per week.
 Prerequisite: Mathematics 4B, Physics 4A-4B-4C or equivalent.
- 135. Statics** **3 units**
 See Engineering 35. For General Secondary Credential candidates only.
- 150. Fundamentals of Radio** **3 units**
 Principles of transmission, propagation and reception of radio waves. Circuit analysis and measurement. Construction and operation of transmitting, receiving and measuring equipment.
 Two lectures and one three-hour laboratory period per week.
 Prerequisites: Math. 3A-3B and one year of college physics or its equivalent.
- 151. Electronics** **2-3 units**
 Nonradio applications of electronic tubes; theory and operation. One lecture and two three-hour laboratory periods per week.
 Prerequisite: One year of general physics.

ENGINEERING

Note: The term engineering is used at Humboldt State College to describe pre-engineering offerings for university transfer, and are of lower division levels.

- 1A-1B. Plane Surveying (year)** **3-3 units**
Principles, field practice, calculation, and mapping.
Prerequisite: Plane trigonometry and Industrial Education 7A or its equivalent.
Two one-hour lecture and one three-hour laboratory periods per week.
- 2. Surveying and Mapping** **3 units**
General land office survey procedures; use of surveying instruments in retracing survey lines, establishing monuments, etc.; road and trail location; construction, use, and interpretation of maps used in forestry; interpretation of aerial photographs.
- 8. Materials of Engineering Construction** **2 units**
Structural properties and adaptability of various materials.
Prerequisite: Sophomore standing in Engineering.
Two one-hour periods per week.
- 22. Engineering Drawing** **2 units**
Fundamentals of engineering drawing. Covers orthographic projection, geometrical construction, pictorial drawing and sketching, sectioning, fasteners, and simple working drawings.
Prerequisite: Ind. Educ. 7A (or a year of high school mechanical drawing).
Six hours per week, lecture and drafting.
- 23. Descriptive Geometry** **2 units**
Principles of descriptive geometry and the solution of three-dimensional problems. Applications in various branches of engineering.
Prerequisite: Engineering 22.
Two one-hour lectures and two two-hour drafting periods per week.
- 24. Advanced Engineering Drawing** **2 units**
Freehand sketching in orthographic and pictorial projections; working drawings; structural detailing; electrical and piping layouts; and introduction to graphic integration and differentiation.
Prerequisite: Engineering 23.
Six hours per week, lecture and drafting.
- 35. Engineering Statics** **3 units**
Forces and force systems, equilibrium conditions, trusses and frames, friction, first and second moments of areas, moments of inertia of masses.
Prerequisite: Physics 4A and Mathematics 4A, or 104A, 4B or 104B. (104B may be taken concurrently.)
Three one-hour periods per week.
- 40. Engineering Metallurgy** **3 units**
Structure of metals and alloys. Properties of metals and alloys as related to their structure and composition.
Prerequisite: Physics 4A.
Two lectures and one three-hour laboratory period per week.
- 41. Manufacturing Processes** **4 units**
Nonmetallic materials used in manufacturing and their processing, plastics, and wood products; casting and forming processes. Use of precision gauges and standard machine tools. Welding. Decorative and protective coatings.
Prerequisite: Engineering 23 and 40.
Two lectures and two three-hour laboratory periods per week.

MATHEMATICS

REQUIREMENTS

<i>Junior High School Major</i>	<i>Minor in Mathematics</i>	<i>Minor for Candidates for General Secondary Credential</i>
Lower Division	Lower Division	
Math. 3A-3B_____ 6 units	Math. 3A-3B_____ 6 units	A minimum of 20 units in courses approved by the Division Chairman
Electives _____ 6 units		
Upper Division	Upper Division	
Math. 101A-101B 6 units	Math. 104A-104B 6 units	
Math. 104A-104B 6 units		
Total units required ____24 units	Total units required ____12 units	*Total units required ____20 units

NOTE: Other requirements for the junior high school credential are given on pages 63-64.

DESCRIPTION OF COURSES

Lower Division

- †C. Trigonometry 3 units
 Plane trigonometry.
 Prerequisite: Plane geometry and one and one-half years of high school algebra or Mathematics D.
 Three one-hour periods per week.
- †D. Intermediate Algebra 3 units
 Quadratic equations; exponents and radicals; theory of equations; elementary determinants; progressions; and the binominal theorem. Not applicable toward a minor in mathematics.
 Prerequisite: One year of high school algebra.
 Three one-hour periods per week.
1. College Algebra 3 units
 Theory of equations; determinants; equations of third and fourth degrees.
 Prerequisite: Mathematics C and D, or equivalent.
 Three one-hour periods per week.
2. Mathematics of Finance 2 units
 See Business Administration 15.
- 3A. Analytic Geometry and Calculus 3 units
 Elements of analytic geometry and differential calculus. Also a survey of the principles of integral calculus, with applications to mechanics.
 Prerequisite: Mathematics C.
 Three one-hour periods per week.
- 3B. Analytic Geometry and Calculus 3 units
 A continuation of differential and integral calculus unified with analytic geometry. This course also includes an introduction to the calculus of vectors, and polar coordinates.
 Prerequisite: Mathematics 3A.
 Three one-hour periods per week.
50. Slide Rule Computation 1 unit
 Theory and practice of the slide rule, from simple multiplication and division through trigonometric calculations and exponential equations.
 One one-hour period per week.

* Courses involving the direct application of mathematics, such as accounting, statistics, plane surveying and mathematics of finance, may be included in the mathematics minor.

† No more than 2 units will be allowed in these courses if they have previously been taken in high school with a grade of "C" or better.

Upper Division

110A-110B. Advanced Engineering Mathematics 2-2 units

Differential equations, Fourier series, conjugate functions, hyperbolic functions.

Prerequisite: Math. 4A-4B.

104A-104B. Integral Calculus and Solid Analytics (year) 3-3 units

First semester continues development of integration and series.

Second semester continues partial differentiation, quadric surfaces and multiple integration.

Prerequisite: Mathematics 3A-3B.

Three one-hour periods per week.

THE DIVISION OF SOCIAL SCIENCE

Business Administration
Business Education
Economics

Geography
History
Philosophy

Political Science
Sociology

OBJECTIVES

The objectives of this division are:

1. To contribute to the general education of all students, especially to an understanding of those institutions and problems that relate to the intelligent exercise of the duties of citizenship. This objective is especially important for future teachers.
2. To acquaint students with the truest and most realistic knowledge that is possible of the community, State, Nation, and the world in which they are to live and make their way.
3. To prepare students for promoting a wiser and more effective interracial, interreligious, and intereconomic cooperation among individuals, groups, communities, states, and nations.
4. To develop character by giving the students a love of truth, an appreciation of the beautiful, a bent toward the good, and a desire and will to use knowledge for beneficent social ends.
5. To train students in the intellectual processes indispensable to the functioning of society.

CURRICULUMS

The Division of Social Science offers curriculums leading to

1. The M. A. degree in the Social Sciences.
2. General Secondary Credential, authorizing service in the secondary schools of the State. This program involves a year of graduate work. Majors are available in the social sciences and business education.
3. The A.B. degree with majors in
 - (a) Social science, providing a cultural education emphasizing the social studies.
 - (b) Social service, for those interested in social welfare work.
 - (c) Economics, affording preparation for graduate study or employment in industry or government service.
 - (d) History, for students interested in graduate work in this specialized field.
 - (e) Business administration, for those seeking managerial positions in business or government service.
 - (f) Business education, with the Special Secondary Credential, authorizing the holder to teach business subjects in the secondary schools of California.
 - (g) Secretarial science for the training of executive secretaries.

THE MASTER OF ARTS DEGREE

The Master of Arts degree in the Social Sciences will be conferred upon students who meet the specific requirements described in detail on pages 49-51.

SOCIAL SCIENCE

*Requirements for the A.B. Degree and a Fifth Year Leading to the General
Secondary Credential With a Major in Social Science*

Lower Division		Units
Major:		
Econ. 1A-1B—Principles of Economics.....		6
Hist. 4A-4B—History of Western Civilization.....		6
General Education: (To be fulfilled in addition to all requirements for the major)		
Engl. 1A—First-year Reading and Composition.....		3
H. H. 1—Personal Health and Safety.....		2
Literature, Philosophy or the Arts.....		6
(Fine and applied arts not to exceed three of the six)		
Natural Sciences.....		9
(Including one biological and one physical science)		
Physical Education Activities.....		2
Psych. 1—General Psychology.....		3
Social Sciences.....		9
(Including:		
Pol. Sci. 1A-1B—Introduction to Government, or		
Soc. 1A-1B—Introduction to Sociology		
Fulfillment of requirement in United States history and Constitution.		
See page 52.)		
Spch. 1—Fundamentals of Speech.....		3
Restricted electives.....		8
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language.)		
Other Requirements:		
Educ. 50A—Introduction to Teaching.....		1
Completion of lower division requirements for a minor.....		6-20 *
Upper Division		Units
Major:		
U. D. Economics—Electives.....		6 †
U. D. History—Electives.....		6 †
U. D. Economics or History.....		12
NOTE: If the student elects history as his field of emphasis, his program must include the following:		
Hist. 197—Aids to Historical Research or		
Hist. 198—History and Historians.....	1 unit	
Hist. 199A or 199B—Special Studies in History.....	2 units	
Other Requirements:		Units
Educ. 113—Psychological and Social Foundations of Education.....		5
Educ. 153—Audio-Visual Education.....		2
Educ. 175—Core Course in Secondary Education.....		5
Educ. 195SS—The Teaching of Social Studies.....		2
Completion of upper division requirements for a minor.....		0-6 †
Electives to total.....		124
Total upper division required.....		40
Scholarship Requirements:		
In all work taken.....		1.00
In major and minor.....		1.00
In each education course taken.....		1.00
For admission to the Graduate Division:		
In major (upper and lower division).....		1.5
In all upper division work taken.....		1.5

* See pages 52-53. Part of the work required for a teaching minor may be completed in the graduate year.

† Students may substitute for either the history or the economics but not for both six units chosen from either upper division sociology or political science.

Graduate Year	Units
A year course in either economics or history (graduate course)-----	6
Educ. 265—Guidance in Education-----	2
Educ. 275—Seminar in Secondary Education-----	2
Educ. 340A-340B—Directed Teaching in the Secondary School-----	6
Major or minor or electives (upper division or graduate courses) to total-----	30
Scholarship requirement (all work in graduate year)-----	1.75

<i>Requirements for the A.B. Degree with Majors in</i>	<i>Liberal Arts †</i>			
	<i>Social Science</i>	<i>Eco- nomics</i>	<i>History</i>	<i>Social Service</i>
(Without a teaching credential)				
Lower Division	Units	Units	Units	Units
Major:				
Econ. 1A-1B—Principles of Economics-----	6	6	—	6
Econ. 40—Elementary Statistics-----	—	3	—	3
Hist. 4A-4B—History of Western Civilization-----	6	—	6	—
Hist. 8A-8B—History of the Americas-----	—	—	6	—
Soc. 1A-1B—Introduction to Sociology-----	—	—	—	6
General Education: (To be fulfilled in addition to all requirements for the major)				
Engl. 1A—First-year Reading and Composition-----	3	3	3	3
Engl. 1B—First-year Reading and Composition-----	—	3	—	—
H. H. 1—Personal Health and Safety-----	2	2	2	2
Literature, Philosophy or the Arts-----	6	6	6	6
(Fine and applied arts not to exceed three of the six)				
Natural Sciences-----	9	9	9	9
(Including one biological and one physical science)				
Physical Education Activities-----	2	2	2	2
Psych. 1—General Psychology-----	3	3	3	3
Social Science-----	9	9	9	9
Including:				
Econ. 1A-1B—Principles of Economics-----	—	—	(6)*	—
Pol. Sci. 1A-1B—Introduction to Govern- ment, or				
Soc. 1A-1B—Introduction to Sociology-----	(6)	—	—	—
Hist. 4A-4B—History of Western Civiliza- tion-----	—	(6)	—	—
Electives in Social Science-----	—	—	—	(6)
Fulfillment of requirement in United States history and Constitution (See page 52.)				
Spch. 1—Fundamentals of Speech-----	3	3	3	3
Restricted Electives-----	8	5	8‡	8
Chosen from the above General Education fields or from mathematics, family life educa- tion, or not more than six units of foreign language, including:				
Math. D—Intermediate Algebra-----	—	3 †	—	3 †

Other Requirements:

H.E. 20—General Nutrition-----	—	—	—	2
Minor:				
B.A. 14A-14B—Principles of Accounting---	—	6	—	—

* Starred courses are recommended but not required.

† Required as prerequisite to Economics 40, unless the student has had equivalent preparation in mathematics.

‡ The student who expects to transfer to another institution for upper division or graduate work should consult the catalog of that institution, particularly in regard to the foreign language requirement. History majors are advised to complete a total of 16 units of foreign language, part of which may be satisfied by courses taken in high school.

Requirements for the A.B. Degree with Majors in	Liberal Arts			
	Social Science	Eco- nomics	History	Social Service
	(Without a teaching credential)			
Upper Division				
Major:	Units	Units	Units	Units
Econ. 100—General Economic Theory-----	—	3	—	—
Econ. 103—Business Cycles-----	—	3	—	—
Econ. 135—Principles of Money and Banking-----	—	3	—	—
Econ. 150—Labor Economics-----	—	3	—	3
Econ. 190—Principles of International Trade and Finance-----	—	3	—	—
U.D. Economics—Elective-----	6	9	—	—
Hist.—American Survey-----	—	—	6	—
Hist.—European Survey-----	—	—	6	—
Hist. 197—Aids to Historical Research <i>or</i> Hist. 198—History and Historians-----	—	—	1	—
Hist. 199A or 199B—Special Studies in History-----	—	—	2	—
U.D. History—Elective-----	6	—	—	—
Soc. 102—Methods in Social Work-----	—	—	—	3
Soc. 110A-110B—The Social Services-----	—	—	—	6
U.D. Sociology—Elective-----	—	—	—	12
U.D. Social Science—Elective-----	12	—	9	—
Other Requirements:				
Minor:				
U.D. Business Administration Elective-----	—	6	—	—
Psych. 105—Social Psychology-----	—	—	—	3 *
H.H. 160—Public Health-----	—	—	—	3
Electives to total-----	124	124	124	124
Total upper division required-----	40	40	40	40
Scholarship Requirements:				
In all work taken-----	1.00	1.00	1.00	1.00
In major-----	1.00	1.00	1.00	1.00
In minor-----	—	1.00	—	—

* Starred courses are recommended but not required.

BUSINESS ADMINISTRATION

The program in business administration is flexible enough in the upper division to permit some degree of specialization for those students interested in emphasizing any one of the following fields of concentration :

Accounting : At least nine units chosen from B.A. 160A, 160B, 161, 162, 166, 169.

Labor-management Relations : At least nine units chosen from B.A. 153, Econ. 106, 155, 185, or other courses approved by the major adviser.

Marketing (Merchandising) : B.A. 125, 126, 134.

General Business : Nine units in the field of the student's special interest, approved by major adviser.

The four-year program in secretarial science is designed to equip students for positions as executive secretaries or office supervisors. Practical experience will be provided through the cooperation of business and professional employers. During the school year, students will be given opportunity for practical experience in actual employment situations under the supervision of the business administration staff.

BUSINESS EDUCATION

The curriculum in business education leads either to the general or the special secondary credential. Both follow essentially the same undergraduate program, except that directed teaching for the general secondary credential is usually done in the graduate year. Candidates for these credentials must verify at least 1,000 hours (approximately six months) of practical experience that is related to the student's field of specialization. They must complete 15 units in either the bookkeeping-accounting or the secretarial subfield, but it is highly desirable to extend professional preparation to two or more subfields.

NOTE : In the general business subfield, 12 semester hours of work in addition to the requirements for a bachelor's degree may be offered in lieu of the six months of full-time experience. At least six of the twelve must be in business or economics.

Business Education									
Sub-Fields									
Bookkeeping and Accounting Secretarial General Business Merchandising									
Business Administration Secretarial Science									
(Without a teaching credential)									
Requirements for the A.B. Degree With Majors in									
Lower Division									
Major:									
Units									
Units									
Units									
B.A. 1A-1B—Shorthand I, II	—	6	—	—	—	—	—	—	6
B.A. 2A-2B—Typewriting I, II	2	4	4	2	—	—	—	—	4
B.A. 5—Business Machines	2	2	—	—	—	—	—	—	2
B.A. 10—Secretarial Accounting	—	—	—	—	—	—	—	—	3
B.A. 14A-14B—Principles of Accounting	6	6	6	6	6	—	—	—	—
B.A. 15—Mathematics of Finance	2	—	—	—	—	2	—	—	—
B.A. 18—Business Law	3	3	3	3	3	—	—	—	—
B.A. 41—Business English	—	—	—	—	—	—	—	—	3
* B.A. 42—Penmanship	1	1	1	—	—	—	—	—	—
B.A. 50—Salesmanship	—	—	3	3	(3) †	—	—	—	—
Econ. 1A-1B—Principles of Economics	—	—	—	—	—	6	—	—	—
Econ. 40—Elementary Statistics	—	—	—	—	—	3	—	—	—
General Education:									
Engl. 1A—First-year Reading and Composition	3	3	3	3	3	—	—	—	3
H.H. 1—Personal Health and Safety	2	2	2	2	2	—	—	—	2
Literature, Philosophy or the Arts	6	6	6	6	6	—	—	—	6
(Fine and applied arts not to exceed three of the six)									
Natural Sciences	9	9	9	9	9	—	—	—	9
(Including one biological and one physical science)									
Physical Education Activities	2	2	2	2	2	—	—	—	2
Psych. 1—General Psychology	3	3	3	3	3	—	—	—	3
Social Science	(13)	(13)	(13)	(13)	12	—	—	—	12
Including:									
Econ. 1A-1B—Principles of Economics	6	6	6	6	—	—	—	—	—
Geog. 5—Economic Geography	3	3	3	3	—	—	—	—	—
Year course chosen from: Hist. 4A-4B; Pol. Sci. 1A-1B; Soc. 1A-1B	—	—	—	—	—	—	—	—	—
Fulfillment of requirement in United States history and Constitution. (See page 52.)									
Spch. 1—Fundamentals of Speech	3	3	3	3	3	—	—	—	3
Restricted Electives	4	4	4	4	5	—	—	—	4
Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language, including:									
B.A. 21—Business Mathematics	—	—	3	—	3 ‡	—	—	—	3
Math. D—Intermediate Algebra	3 ‡	—	—	—	3 ‡	—	—	—	—
Other Requirements:									
Educ. 50A—Introduction to Teaching	1	1	1	1	—	—	—	—	—
Completion of lower division requirements for a minor **	6-20	6-20	6-20	6-20	—	—	—	—	6-20

* May be satisfied by examination.

† B.A. 50 required only of students emphasizing marketing (merchandising).

‡ Prerequisites (unless the student has had equivalent preparation).

B.A. 21 is prerequisite to B.A. 15.

Math. D is prerequisite to B.A. 15 and Econ. 40.

** See pages 52-53. Part of the requirements for the teaching minor may be completed in the graduate year.

*Business Education**Requirements for the A.B. Degree
With Majors in**Sub-Fields*

Bookkeeping and Accounting	Secretarial	General Business	Merchandising
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Business Adminis- tration	Secre- tarial Science
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Upper Division									
Major:	Units				Units	Units			
B.A. 101—Advanced Shorthand	—	—	—	—	—	3			
B.A. 102—Advanced Typing	—	—	—	—	—	2			
B.A. 105—Dictation and Transcription	—	2	—	—	—	2			
Econ. 103—Business Cycles	—	—	—	—	3	—			
B.A. 106—Advanced Business Machines	—	—	—	—	—	2			
B.A. 109—Business Correspondence	—	3	—	—	—	3			
B.A. 111—Office Management	—	—	—	—	—	2			
B.A. 112—Secretarial Training	—	3	—	—	—	3			
B.A. 113—Office Practice	—	—	—	—	—	3			
B.A. 118—Business Law II	3	3	3	3	3	—			
B.A. 120—Business Organization	3	3	3	3	3	3			
B.A. 125—Retail Advertising	—	—	—	3	—	3			
B.A. 126—Retail Store Management	—	—	—	3	—	—			
Econ. 105—Consumer Economics	3	3	3	3	—	—			
B.A. 134—Marketing	3	3	3	3	3	3			
Econ. 135—Money and Banking	—	—	—	3	—	—			
B.A. 152—Principles of Business Education	3*	3*	3*	3*	—	—			
B.A. 160A—Advanced Accounting	3	—	—	—	—	—			
Econ. 150—Labor Economics	3†	3†	3†	3†	—	—			
U.D. Business Administration or Economics— Elective	6	3	9	3	12	—			
Other Requirements:									
Educ. 113—Psychological and Social Founda- tions of Education	5	5	5	5	—	—			
Educ. 153—Audio-Visual Education	2	2	2	2	—	—			
Educ. 175—Core Course in Secondary Educa- tion	5	5	5	5	—	—			
Educ. 195B—The Teaching of Business Educa- tion	2	2	2	2	—	—			
Educ. 340A—Directed Teaching	4*	4*	4*	4*	—	—			
Completion of upper division requirements for a minor	0-6‡				—	—			
Electives to total	124				124	124			
Total upper division required	40				40	40			
Scholarship Requirements:									
In all work taken	1.00				1.00	1.00			
In major	1.00				1.00	1.00			
In minor	1.00				—	—			
In each Education course taken	1.00				—	—			
For admission to Graduate Division:									
In major (upper and lower division)	1.5				—	—			
In all upper division work taken	1.5				—	—			

* Required for the special secondary credential only.

† Required for the general secondary credential only.

‡ See pages 52-53. Part of the requirements for the teaching minor may be completed in the graduate year.

Graduate Year (General Secondary Credential Only)

	<i>Units</i>
B.A. 252—Philosophy of Business Education.....	3
Educ. 265—Guidance in Education.....	2
Educ. 275—Seminar in Secondary Education.....	2
Educ. 340A-340B—Directed Teaching in the Secondary School.....	6
Elective in secondary subject field.....	3
Major or minor or electives (upper division or graduate courses) to total.....	30
Scholarship requirement (all work in graduate year).....	1.75

REQUIREMENTS*Junior High School Majors*

<i>Economics</i>		
Lower Division	Economics 1A-1B	6 units
	History 4A-4B or	
	Political Science 1A-1B.....	6 units
Upper Division	U.D. Economics	12 units
Total units required.....		24 units
<i>History</i>		
Lower Division	Economics 1A-1B or	
	Political Science 1A-1B.....	6 units
	History 4A-4B	6 units
Upper Division	U.D. History	12 units
Total units required.....		24 units
<i>Social Science</i>		
Lower Division	Economics 1A-1B or	
	History 4A-4B	6 units
	Political Science 1A-1B or	
	Sociology 1A-1B	6 units
Upper Division	U.D. Social Science	12 units
Total units required.....		24 units

Additional requirements for the junior high school credential are given on pages 63-64.

Minor for Candidates for the General Secondary Credential*Social Science*

A minimum of 20 units in courses approved by divisional chairman. At least six units must be in the upper division. This meets the state requirement for a minor in social studies.

Minors in the Social Science Fields

	<i>Economics</i>	<i>History</i>	<i>Political Science</i>	<i>Sociology</i>
Lower Division -----	1A-1B	4A-4B	1A-1B	1A-1B
Upper Division -----	6 units	6 units	6 units	6 units
Total units required-----	12 units	12 units	12 units	12 units

	<i>Business Administration</i>	<i>Accounting</i>	<i>Secretarial Training</i>
Lower Division...B.A. 14A-14B		B.A. 14A-14B	B.A. 1A-1B B.A. 2A-2B
Upper Division-----	6 units	B.A. 160A and 3 units from: 160B, 161, 169	112 and 3 units from 110, 111, 113
Total units required...12 units		12 units	16 units

DESCRIPTION OF COURSES**HISTORY****Lower Division****4A-4B. History of Western Civilization (year) 3-3 units**

A rapid survey of the political, economic, social, religious, and cultural development of western civilization from ancient times to the present.

First semester: From ancient times to the seventeenth century.

Second semester: From the seventeenth century to the present.

History 4A is not necessarily prerequisite to 4B, although this sequence is recommended.

Required of all History and Social Science majors and minors.

Three one-hour periods per week.

8A-8B. History of the Americas (year) 3-3 units

The development of the Western Hemisphere from discovery to the present. The first semester emphasizes exploration and settlement, colonial growth, imperial rivalries, and includes the achievement of independence. The second semester emphasizes the growth and development of the American nations and people in the last century and a quarter.

Three one-hour periods per week.

70. History of the United States 2 units

A rapid survey from colonial times to the present. Development of the major political and social institutions of the American people; economic development; sectionalism; expansion. Emphasizes main currents.

This course meets the requirements in United States history established by the Legislature of California.

Two one-hour periods per week.

Upper Division

Prerequisite to all upper division courses in History: History 4A-4B, and History 70 or 8A-8B or consent of the instructor.

100. Contemporary Events 2 units

An evaluation of present day problems and a critical appraisal of recent thinking about American foreign policy.

Two one-hour periods per week.

121A-121B. The Middle Ages (year)**3-3 units**

121A is a survey of the early Middle Ages. It covers the main events of European history from the fall of the Roman Empire to about 1150 A. D.

121B is a survey of the later Middle Ages. It covers the main events of European history from 1150 to 1450 with emphasis upon social, cultural, religious, and economic foundations of Western Europe.

Three one-hour periods per week.

124. World Organization for Peace**3 units**

A general survey of the historical background of the institutions and agencies of international government with major stress on international organization for peace.

Three one-hour periods per week.

142. Europe in the Sixteenth, Seventeenth, and Eighteenth Centuries**3 units**

The political, economic, social, and intellectual history of Europe from the Reformation to the fall of Napoleon.

Three one-hour periods per week.

143. Europe in the Nineteenth Century**3 units**

European society, politics, and international relations from the Congress of Vienna through the unification of Italy and Germany.

Three one-hour periods per week.

144. Europe Since 1870**3 units**

The history of Europe with special stress on the causes of the world wars and wars themselves.

Three one-hour periods per week.

148. Recent World History**3 units**

Political, economic, and social developments leading to World Wars I and II. Includes present-day international relations.

Three one-hour periods per week.

149. History of Russia**3 units**

Internal history of Russia with emphasis on Soviet Russia; Russia and the Soviet Union, world politics, and world economics.

151A-151B. Economic, Political and Social History of England**3-3 units**

A study of the principal currents in political and social progress of England in modern times. Special emphasis is placed on economic trends and developments.

Three one-hour periods per week.

153. History of England**2 units**

A study of the English people through a survey of their political, economic, social, and cultural history.

Two one-hour periods per week.

161A-161B. Hispanic America**3-3 units**

The first semester covers the history of Latin America through the Wars of Independence. The second semester brings the history of these countries up to the present time. It includes a study of the relations among the various South American countries, and with the United States, Europe, and Asia. See also Political Science 126.

Three one-hour periods per week.

167. The Foreign Relations of the United States**3 units**

The foreign policy of the United States in the Nineteenth and Twentieth Centuries; the rise of the United States to a position of world power and the problems and changes growing out of this new position.

Three one-hour periods per week.

168. The United States as a World Power**3 units**

The emergence of the United States as a major power during the Twentieth Century and the international repercussions of America's developing influence. See also Political Science 128.

Three one-hour periods per week.

- 171. The United States: Colonial Period** **3 units**
 Political, social, and constitutional history of the United States through the colonial period to 1789.
 Three one-hour periods per week.
- 172. The United States: The Nineteenth Century** **3 units**
 Social, cultural, and political history of the United States from Washington's administration to 1898.
 Three one-hour periods per week.
- 174. The United States: The Twentieth Century** **3 units**
 Presents a general survey of political, social, and cultural aspects of United States history from 1898 to the present.
 Three one-hour periods per week.
- 179. American Constitutional History** **3 units**
 A study of the Federal Constitution from the historical standpoint, with emphasis upon the constitutional convention and the constitutional controversies of the nineteenth and twentieth centuries.
 Three one-hour periods per week.
- 181. History of the Westward Movement** **3 units**
 A study of the advances of the American frontier through its various stages from the Atlantic to the Pacific.
 Three one-hour periods per week.
- 188. History of California** **2 or 3 units**
 The economic, social, intellectual, and political development of California from the earliest time to the present. Two units for the regular class with the possibility of an extra unit by conference.
 Two one-hour periods per week.
- 197. Aids to Historical Research** **1 unit**
 An introduction to historical method, including a study of the auxiliary sciences.
- 198. History and Historians** **1 unit**
 A study of historiography, including intellectual processes by which history is written, the results of these processes, and the sources and development of history. Attention is also given to representative historians.
- 199A-199B. Special Studies in History (year)** **2-2 units**
 Individual investigation of selected topics. 199A is required of all history majors. To be taken in the senior year in a field for which specific preparation has been made in the junior year.

Graduate Division

Prerequisites: Graduate standing, and the completion of History 197 or 198 and 199A or 199B.

- 254A-254B. Seminar in Modern European History** **3-3 units**
 Studies in specialized periods of European history with emphasis centering around the early and late Middle Ages.
- 281A-281B. Seminar in American History** **3-3 units**
 Studies in specialized periods of American history with emphasis centering around those subjects and periods for which the most research material is available; the colonial history of the United States; the Civil War period, and the Northwest.
- 288A-288B. Seminar in California History** **3-3 units**
 Studies in California history, with emphasis upon the development of local institutions and industries.
- 290. Master's Degree Thesis** **3 units**
 See page 49.

ECONOMICS**Lower Division****1A-1B. Principles of Economics (year) 3-3 units**

First semester: Economic organization; the economic laws governing value, price, and the distribution of income; industry relations; the social security system.

Second semester: Money and banking; international trade, finance, and commercial policy; government finance; economic reform.

Three one-hour periods per week.

40. Elementary Statistics 3 units

Theory and uses of statistical methods. Practice in tabular and graphical representation of data. Measures of central tendency, relationships, and dispersion. Coefficients, index numbers, time series, and other forms of statistical calculations.

Students taking this course should consult the instructor concerning the adequacy of their mathematical background.

Three one-hour periods per week.

Upper Division

Prerequisite to all upper division courses in Economics: Economics 1A-1B or consent of the instructor.

100. General Economic Theory 3 units

Modern theories of price determination and evolution of ideas concerning wages, rent, and interest. Study of the principles of value and distribution under competition, monopoly, and monopolistic competition.

Three one-hour periods per week.

103. Business Cycles 3 units

A historical and descriptive study of the business cycle. Statistical analysis of business cycles and business forecasting. A comparison of various theories of the business cycle.

Three one-hour periods per week.

104. National Income and Employment 3 units

The factors that determine output, national income and employment. Survey of recent monetary-fiscal theories relative to the level of employment. The Keynesian influence on contemporary economic theory.

Three one-hour periods per week.

105. Consumer Economics 3 units

A general survey of the economics of consumption in the United States with an analysis of the determination of consumer demands and of the sources of supply.

106. Social-Economic Reform Movements 3 units

A historical and comparative survey of Socialism, Communism, Cooperation, and Utopianism, and other systems of reform and reconstruction.

See also Soc. 101.

Three one-hour periods per week.

113. Economic and Social History of the United States 3 units

The development of American economic institutions and the interaction between economic factors and the social and political conditions in the United States.

Three one-hour periods per week.

130. Business Finance 3 units

The instruments and methods of financing the industrial enterprise. Financial practices of firms and their effects upon the economy.

Three one-hour periods per week.

131. Public Finance and Taxation 3 units

Public expenditure, revenue, and borrowing. Fiscal policy and the business cycle. The problem of shifting, incidence, and economic effects of taxes.

Three one-hour periods per week.

- 135. Principles of Money and Banking** **3 units**
The nature and function of money and credit; the structure and functions of the most important financial institution in American economic society.
Three one-hour periods per week.
- 150. Labor Economics** **3 units**
A survey of modern labor conditions, followed by a study of the more specific labor problems related to wages, hours of work, conditions of work, unionism, economic security, and industrial relations.
Three one-hour periods per week.
- 151. Industrial Relations** **3 units**
Postwar wage and nonwage practices. Underlying forces in a maturing labor-management relation. The role of the fact-finding board.
Prerequisite: Econ. 150.
Three one-hour periods per week.
- 155. Labor and Social Legislation** **3 units**
Industrial codes concerning safety and sanitation, and governing the employment of women and children in industry. Workmen's compensation; the Fair Labor Standards Act; laws and court decisions affecting wages, hours, picketing, union agreements, strikes, etc.
Three one-hour periods per week.
- 158. Government and Business** **3 units**
Includes a study of governmental planning, governmental activity in the preservation and regulation of competition. Special emphasis is placed upon industrial codes and safety and sanitation legislation. Workmen's compensation, Fair Labor Standards Act, laws and court decisions, wages, hours, picketing, strikes, etc.
Three one-hour periods per week.
- 185. Social Insurance** **3 units**
The causes of insecurity in the industrial system and of society's attempts to cope with the problem. Regularization of employment and other phases of economic planning; unemployment and old age insurance; security against industrial accidents and occupational diseases; health insurance; and public relief. See also Sociology 110A.
Three one-hour periods per week.
- 188. World Population and Resources** **3 units**
Distribution of the world's population and resources and their relationship in terms of economic welfare; areas of population pressure; measures for economic cooperation in the interests of world peace.
Three one-hour periods per week.
- 190. Principles of International Trade and Finance** **3 units**
The theory of international trade; balance of trade and payments; foreign exchanges and foreign trade financing; government control and direction of international trade.
Three one-hour periods per week.
- 191. International Economic Policy** **3 units**
Tariff and other mechanisms for the control of international trade; the reciprocal trade agreement program; and problems which are of special importance for world economic reconstruction, i.e., multilateral trade conventions, monetary stabilization, international investment, transport and communication agreements, international cartels and commodity agreements.
Three one-hour periods per week.

Graduate Division

Prerequisites: Graduate standing and adequate preparation in Economics.

201A-201B. Development of Economic Thought 3-3 units

The development of economic thought from classical times to the present. Emphasis is given to the study of the physiocrats, Adam Smith, Malthusian school, classicism and utilitarianism, "National School of Political Economy," the historical approach to economics, the rise of socialism and economic radicalism, and recent economic doctrines.

290. Master's Degree Thesis 3 units
See page 49.**299A-299B. Special Problems 3-3 units**
Assignment of special economic problems for intensive study.**BUSINESS ADMINISTRATION****Lower Division****1A. Shorthand I 3 units**
Introduction to Gregg shorthand simplified through the functional method approach.
Five one-hour periods per week.**1B. Shorthand II 3 units**
Further development of speed in writing. A minimum speed of 80 words per minute is the objective of the course.
Five one-hour periods per week.
Prerequisite: B.A. 1A or equivalent.**1C. Shorthand III 3 units**
Dictation and transcription. Speed writing beyond the 100 word per minute level.
Prerequisite: B.A. 1B or equivalent.
Five one-hour periods per week.**2A. Typewriting I 1-2 units**
A skill subject designed to teach the fundamentals of touch typing in the shortest possible time. The last half of course may be taken for one unit as a refresher course.
Six one-hour periods per week.**2B. Typewriting II 2 units**
Advanced technique and practice. Stress will be placed upon the prevention of bad habits in typewriting, remedial typewriting, letter writing, carbon copies, addressing envelopes, continuity and rhythm.
Prerequisite: Business Administration 2A or its equivalent.
Six one-hour periods per week.**2C. Typewriting III 2 units**
Expert typing drills, tabulating, billing, problems involving the working out of real office jobs under office conditions.
Prerequisite: Business Administration 2B or its equivalent.
Six one-hour periods per week.**3. Filing 1 unit**
A vocational course in filing.
One one-hour period per week.**4. Word Study 2 units**
A study of words used in business and industry with special drill on those commonly misspelled.
Two one-hour periods per week.

5. Business Machines**2 units**

Instruction in the operation of the following types of machines: Burroughs key-driven calculator; Underwood-Sundstrand electric adding machine; Burroughs Bookkeeping machines; and Monroe Bookkeeping machine.

Six one-hour periods per week.

6. Business Machines**2 units**

Instruction in the operation of the following types of machines: Marchant electric calculator; Monroe electric calculator; Monro-Matic calculator; Frieden electric calculator; Burroughs manual and electric adding machines; and Monroe electric adding machines.

Six one-hour periods per week.

10. Secretarial Accounting**3 units**

Designed primarily for secretaries and those preparing for general clerical work. Complete bookkeeping cycle is covered rapidly but emphasis is placed on bookkeeping for small business concerns, and clerical procedures such as pay roll preparation, customer postings, and bank reconciliations.

Two one-hour lecture periods and one three-hour laboratory period.

13. Office Practice**3 units**

See B.A. 113.

14A-14B. Principles of Accounting (year)**3-3 units**

First semester: The mechanics of bookkeeping, balance sheet approach, including the general journal, specialized journals, posting, trial balances, columnar working sheets, closing entries, balance sheets, and profit and loss statements.

Prerequisite: Sophomore standing.

Second semester: Characteristics of the partnership and corporate form of business organization, cost accounting, department and branch accounting, analysis and interpretation of financial statements.

Prerequisites: B.A. 14A.

Two one-hour lecture periods and one three-hour laboratory period per week.

15. Mathematics of Finance**2 units**

Presentation of mathematical formulas used in problems of compound interest and discounts. Application of such formulas to business problems, including valuation of certain assets and liabilities, depreciation, life insurance, etc.

Prerequisite: Math. D and B.A. 21 or equivalent preparation.

Two one-hour periods per week.

18. Business Law**3 units**

Historical development of law and its functions with respect to business. Emphasis on the law of contracts, the law of agency, and the law of negotiable instruments.

Three one-hour periods per week.

20. Introduction to Business and Economics**3 units**

A survey course designed to acquaint the beginning student with the social setting, the institutions, the functions, and the administrative problems of modern business activity.

Three one-hour periods per week.

21. Business Mathematics**3 units**

Designed to give students a workable conception of the fundamental principles of the mathematics of business. Includes fractions, percentages, simple and successive discounts, markups, etc.

(This requirement may be met by passing the departmental examination.)

One-hour lecture and two two-hour laboratory period per week.

25. Advertising**3 units**

Study of methods and materials used in the preparation of advertising, layout, and copy writing; advertising media; business advertising policies.

26. Retail Store Management**3 units**

A study of retailing methods from the standpoint of the owner and manager. Includes the case study of such subjects as purchasing, planning, stocks, inventory methods, markup, accounting for stock control, pricing, style merchandising, and general management problems.

Three one-hour periods per week.

27. Small Business Management**3 units**

A study of the problems and techniques involved in establishing and operating a small business. All aspects, from determining its nature to handling personnel and tax problems, are considered.

Prerequisite: B.A. 134 or B.A. 34A.

28. Advertising Copy and Layout**3 units**

A study of the principles and techniques of written communication, as applied to advertising copy writing; principles of display and preparation of layouts; techniques of the artist, engraver, and printer, as applied to advertising.

Prerequisite: B.A. 25.

Three one-hour periods per week.

30. Consumer Economics

A study and evaluation of policies and practices of advertising agencies; consumer cooperatives, and government agencies for the protection of the consumer; intelligent buying, budgeting, personal investing; analysis of standards of living.

34A-34B. Marketing**6 units**

A study of the scientific method and research techniques, both library and field research, with specific application to solving problems related to marketing. Methods of conducting surveys and questionnaire construction are studied and applied.

Prerequisite: B.A. 34A must be taken before 34B.

Three one-hour periods per week.

35. Lumber Marketing**3 units**

Methods of distribution; direct sales; work of wholesalers; commission men, and retail yards; records and reports necessary for sales; problems of transportation, including rates, routing, and loading.

36. Product Merchandising**3 units**

A study of the basic problems involved in performing the merchandising function in marketing a specific product; that is, the planning required in marketing the right product or service at the correct place and time, in optimum quantities, and at the right price.

Prerequisites: B.A. 134 or B.A. 34A.

Three one-hour periods per week.

41. Business English**3 units**

Fundamentals of grammar and sentence structure; punctuation; personal letters; the letter in business.

Prerequisite: Satisfactory score on Engl. X test.

42. Penmanship**1 unit**

(May be fulfilled by examination.)

50. Salesmanship**3 units**

The personality and training of the salesman; sales analysis; selling techniques and procedures.

Three one-hour periods per week.

69. Business Practice**2 units**

Work experience in office and store supervised by the instructor in cooperation with management.

Upper Division

- 101. Advanced Shorthand** **3 units**
Advanced speed writing and development of efficient techniques of transcription.
Five one-hour periods per week.
Prerequisite: B.A. 1B or its equivalent.
- 102. Advanced Typewriting** **2 units**
Emphasis on speed and accuracy technique; tabulation and specialized typing.
Prerequisite: B.A. 2B or its equivalent.
Six one-hour periods per week.
- 105. Dictation and Transcription** **2 units**
Production of the mailable letter in business. Extensive dictation and essential points of English and style.
Prerequisite: Business Administration 1C or its equivalent.
Two two-hour periods per week.
- 106. Advanced Business Machines** **2 units**
Development of skill in the operation of office machines. Designed for students majoring in secretarial science.
Prerequisite: B.A. 5 or consent of instructor.
Six one-hour periods per week.
- 109. Business Correspondence** **3 units**
The letter in business; telegrams, memorandums, reports, advertising; the art of proofreading.
Prerequisite: English 1A.
Three one-hour periods per week.
- 111. Office Management** **2 units**
Lectures and discussions concerning the problem of office management, i.e., flow of work, physical facilities, working conditions, nature and sources of supplies and equipment.
Two one-hour periods per week.
- 112. Secretarial Training** **3 units**
Practical secretarial problems involving personality studies and business etiquette; filing; duplicating machines; voice transcription; dictation and transcription of shorthand notes.
Prerequisite: B.A. 1B, 2B, and B.A. 41, or equivalent.
Five one-hour periods per week.
- 113. Office Practice** **3 units**
Supervised on-the-job training in business offices in the area.
One conference period and eight hours in a business office per week.
- 118. Business Law II** **3 units**
A second course in business law with emphasis on business organization, including partnerships, corporations, and agency; personal and real property, including sales, bailments, mortgages, landlord and tenant, lien laws; security relations, including conditional sales, suretyships, insurance; trade regulations.
Prerequisite: B.A. 18.
Three one-hour periods per week.
- 120. Business Organization** **3 units**
Introduction to business management; the economic framework of modern business; management of physical and human resources; management of production and sales; administrative controls.
Three one-hour periods per week.
- 125. Retail Advertising** **3 units**
The planning and execution of advertising for the retail business; research, budgets, media, copy, layout, and management of the advertising department.
Prerequisite: B.A. 134 or consent of instructor. See Journalism 125.
Three one-hour periods per week.

- 126. Retail Store Management** **3 units**
A study of retailing methods from the standpoint of the owner and manager. Includes the case study of such subjects as purchasing, planning, stocks, inventory methods, markup, accounting for stock control, pricing, style merchandising, and general management problems.
Three one-hour periods per week.
- 127. Small Business Management** **3 units**
A study of the problems and techniques involved in establishing and operating a small business. All aspects, from determining its nature to handling personnel and tax problems, are considered.
Prerequisite: B.A. 134 or B.A. 34A.
- 128. Advertising Copy and Layout** **3 units**
A study of the principles and techniques of written communication, as applied to advertising copy writing; principles of display and preparation of layouts; techniques of the artist, engraver, and printer, as applied to advertising.
Prerequisites: B.A. 125 or B.A. 25.
Three one-hour periods per week.
- 130. Business Finance** **3 units**
See Econ. 130.
- 133. Personal Finance and Investments** **3 units**
A study of financial institutions and methods of achieving financial security, including borrowing and lending, controlling budgets, investing in securities, buying insurance and annuities, arranging for trust funds, financing home ownership, figuring income tax.
Three one-hour periods per week.
- 134. Marketing** **3 units**
The organization and management of markets. A survey of the activities involved in transferring manufactured goods and agricultural products from producer to consumer.
Three one-hour periods per week.
- 136. Product Merchandising** **3 units**
A study of the basic problems involved in performing the merchandising function in marketing a specific product; that is, the planning required in marketing the right product or service at the correct place and time, in optimum quantities, and at the right price.
Prerequisites: B.A. 134 or B.A. 34A.
Three one-hour periods per week.
- 143. Principles of Insurance** **3 units**
An introduction to the underlying principles of insurance, followed by the presentation and discussion of the several types of insurance policies. Policies discussed include fire, ocean marine, inland marine, liability, workman's compensation, burglary, health and accident, automobile, and surety bonds.
Three one-hour periods per week.
- 152. Principles of Business Education** **3 units**
The principles of business education as they relate to business activities.
Three one-hour periods per week.
- 153. Personnel Administration** **3 units**
Personnel policies and procedures. Wage policy and administration. Collective bargaining procedures. Social aspects of industry and its effect upon personnel policy. The government's role in personnel administration.
Three one-hour periods per week.
- 160A-160B. Advanced Accounting (year)** **3-3 units**
Intensive study of the advanced theory of accounts and its application. Textbook, selected problems, and lectures on the various phases of accounting theory and practice.
Two one-hour lectures and one two-hour laboratory section per week.
Prerequisite: B.A. 14A-14B; 160A prerequisite to 160B.

161. Cost Accounting**3 units**

Intensive study of methods used in accounting for production costs. Includes job order system, process system, and standard costs. Two one-hour lectures and one two-hour laboratory section per week.

Prerequisite: B.A. 14A-14B. B.A. 160A recommended.

162. Auditing**3 units**

Presentation of modern auditing principles and procedures followed in an examination of financial statements. Textbook, selected cases and problems and lectures.

Two one-hour lectures and one two-hour laboratory section per week.

Prerequisite: B.A. 14A-14B, 160A. 160B is recommended.

166. Analysis of Financial Statements**3 units**

Intensive study of the data and its significance which becomes expressed in financial statements. Includes ratio analysis, working capital analysis, source and application of funds statement, and analysis of change in profit.

169. Federal Income Tax Procedure**3 units**

A study of the federal laws relating to personal, estate, and corporation income taxes, from the accounting point of view. Lectures and case problems.

Prerequisite: B. A. 14A-14B.

Three one-hour periods per week.

199. Special Problems**2 units**

Research work open to advanced students with the consent of the instructor.

Graduate Division**252. Philosophy of Business Education****3 units**

The development of a basic philosophy of Business Education.

299. Special Problems**1-3 units****GEOGRAPHY****Lower Division****5. Economic Geography****3 units**

A geographic interpretation of man's economic activities. Includes a study of the natural environment and a regional survey of the world's agricultural, industrial, and mineral distribution.

Three one-hour periods per week.

Upper Division**123. International Geopolitics****2 units**

See Political Science 123.

Two one-hour periods per week.

181. Current Problems in Political Geography**2 units**

See Political Science 127.

Two one-hour periods per week.

PHILOSOPHY**Lower Division****6A-6B. Introduction to Philosophy (year)****3-3 units**

First semester: An elementary survey of the fundamental concepts and issues in ethics, logic, metaphysics, religion, ontology, and the theory of knowledge.

Second semester: A special consideration of the basic problems of philosophy, including historical references to solutions presented in the past.

Three one-hour periods per week.

Upper Division

- 106. Reform Movements** **3 units**
 See Economics 106.
- 113. Contemporary Thought** **2 units**
 A survey and critical analysis of the more prominent philosophies of the present day, with particular emphasis upon political thought. Students who have credit for Political Science 113 may not receive additional credit for this course.

POLITICAL SCIENCE**Lower Division**

- 1A-1B. Introduction to Government (year)** **3-3 units**
 A study of the development, ideology, techniques, organizations and functions of various governments. Comparison and contrast with the government of the United States is stressed.
 Three one-hour periods per week.
- 51. American Constitutional Government** **2 units**
 A study of the structure, operation, and development of the American constitutional system, including state and local government.
 This course meets the requirements in United States Constitution established by the Legislature of California.
 Two one-hour periods per week.

Upper Division

- 113. Contemporary Political Thought** **2 units**
 A survey and critical analysis of the major political ideas of the present day, with particular emphasis on American views.
 Two one-hour periods per week.
- 115. American Political Ideas** **2 units**
 A critical analysis of the major political ideas in American history. Among the problems discussed in a search for a sound philosophy for democracy will be the ideas of majority rule, public opinion, propaganda, society's needs, minority rights, and force and persuasion.
 Two one-hour periods per week.
- 123. International Politics** **2 units**
 Problems of nationalism, imperialism, and world federation, particularly in connection with current problems of maintaining peace; the course includes a study of geopolitical problems.
 Two one-hour periods per week.
- 124. International Organizations** **3 units**
 See History 124.
- 126. Latin-American International Relations** **3 units**
 See History 161B.
- 127. International Relations** **3 units**
 A study of the instruments, techniques, institutions, and problems of international government with stress upon current issues of international diplomacy, including the United Nations.
 Three one-hour periods per week.
- 128. Recent Foreign Policy of the United States** **3 units**
 See History 168.
- 138. International Relations in the Far East** **2 units**
 Historical development and present difficulties in the relations between the various world powers in the Pacific area; the changing importance of the Far East and its resultant problems.

152. American Political Parties and Practical Politics 2 units

The role of political parties in American government ; an analysis of the history, organization, and activities of parties ; pressure groups ; practical politics studied from the point of view of the nominating system ; the conduct of elections ; campaign techniques, voting ; and the spoils system.

Two one-hour periods per week.

153. The Government of Great Britain 2 units

A study of the legal, administrative, and parliamentary development of England from Anglo-Saxon times to the present.

Two one-hour periods per week.

158. Government and Business 3 units

See Economics 158.

198. Directed Reading in Political Science 2 units

This course will include selected readings in political theory, international relations, administrative management, politics, and legislation, and Latin American political institutions.

SOCIOLOGY**Lower Division****1A-1B. Introduction to Sociology (year) 3-3 units**

1A—An introduction to the study of the social life of man and its relations to the factors of culture, natural environment, heredity, and the group.

1B—Social problems in the contemporary world.

Three one-hour periods per week.

8. Game Law Enforcement 2 units

To acquaint the student with the basic concepts of law enforcement, with special emphasis on fish and game law enforcement work.

This course is *not* applicable toward the major or the minor in Sociology nor toward the basic requirement in Social Sciences.

One two-hour lecture and laboratory period per week.

60. The Family 3 units

See Sociology 160.

Upper Division

Prerequisite to upper division courses in sociology : Sociology 1A-1B or consent of instructor.

101. Social-Economic Reform Movements 3 units

See Economics 106.

102. Methods in Social Work 3 units

An introduction to the methods of case work, group work and community organization, with special emphasis on case-work techniques and skills. Includes approximately 50 hours of field work, under supervision, in community agencies.

Prerequisites : Sociology 110A-110B (110B may be taken concurrently) and the consent of the instructor.

Three one-hour periods per week.

103A-103B. Crime and Delinquency (year) 2-2 units

103A—Crime: the nature and extent ; theories of causal factors ; local, state, and federal programs for dealing with the adult criminal. The place and use of probation and parole.

103B—Delinquency: the nature and extent of juvenile delinquency ; theories of causal factors ; programs for dealing with the delinquent and for the prevention of juvenile delinquency.

Two one-hour periods per week.

- 104. Social Insurance** **3 units**
See Economics 185.
- 105. Psychiatric Information for Social Workers** **2 units**
An introduction to the schools of psychiatric thought. Development of the mental hygiene movement. Community services for the prevention and treatment of mental illness.
Two one-hour periods per week.
- 106. Community Organization** **2 units**
The concept of the community, the sociological background of community organization. Methods in studying the community.
Two one-hour periods per week.
- 108. Problems and Practices of Law Enforcement** **2 units**
The laws and practices governing seizure, identification, and presentation of evidence. Includes a study of both federal and state game laws. Provides opportunity for practical experience and field work.
This course is *not* applicable toward the major or the minor in Sociology nor toward the basic requirement in Social Science.
One two-hour period per week.
- 109. Race Relations** **3 units**
History and status of the principal racial and ethnic minority groups in the United States; relations between minority and majority groups; the nature of prejudice and programs for the control and mitigation of discrimination and prejudice.
Three one-hour periods per week.
- 110A-110B. The Social Services** **3-3 units**
110A—Historical development of the social services, including relationships between private and public services.
110B—Modern social services—their organization and programs—with special emphasis on the public social services.
Three one-hour periods per week.
- 111. Public Welfare** **3 units**
Organization of federal, state, and local services to meet welfare needs in the United States. Problems of administration of these services.
Three one-hour periods per week.
- 143. Urban Sociology** **3 units**
The modern city contrasted with earlier cities; the structure and characteristics of the modern urban center and the effects of these on the social institutions; problems of rapid urbanization.
Three one-hour periods per week.
- 144. Rural Social Problems** **3 units**
Sociological study of the rural community and an analysis of the social problems of the present-day rural community.
Three one-hour periods per week.
- 152. Child Welfare** **3 units**
Needs of dependent and neglected children and existing programs for the care and protection of these children. Application of case work methods to child welfare.
Three one-hour periods per week.
- 160. The Family** **3 units**
Emphasis is on specific aspects of modern family living including preparation for marriage, interpersonal relationships, and particular fields of knowledge important to family life. Background is provided by initial study of the cultural forms of family life and the historical development of the American family.
Three one-hour periods per week.

GROUP MAJOR

The Group Major has been developed to serve the needs of those students who wish to secure an A.B. Degree which is broadly cultural in character. It provides a "General Education" background for those who wish to pursue a type of professional training which demands a broad rather than a specialized undergraduate program. Many combinations are possible, as the listings below indicate.

The program for a Group Major must include the following :

Lower Division		<i>Units</i>
Engl. 1A—First-year Reading and Composition		3
H.H. 1—Personal Health and Hygiene		2
Literature, Philosophy or the Arts.....		6
(Fine and applied arts not to exceed three of the six)		
Natural Sciences		9
(Including one biological and one physical science)		
Physical Education Activities		2
Psych. 1—General Psychology		3
Social Sciences		9
(Including fulfillment of the requirement in United States history and Constitution. See page 161.)		
Spch. 1—Fundamentals of Speech		3
Restricted Electives		8
(Chosen from the above General Education fields or from mathematics, family life education, or not more than six units of foreign language)		
Completion of all prerequisites for the major.		

Upper Division		
Major (See below)		36
U. D. Electives		4
Electives to total		124
Scholarship Requirements:		
In all work taken		1.00
In each division of the major		1.00

The major consists of 36 units in the upper division, distributed among three subject-fields, chosen from the lists of majors and minors on pages 52 and 53 or from subdivisions of those fields, as listed under the various divisions of the curriculums. The student following this major may, in consultation with his adviser, arrange the distribution of the 36 units in whatever proportion seems best, subject, however, to the following requirements:

(a) Not less than six upper division units must be taken in each field, together with the lower division prerequisites; the total of upper division units in any one field should not exceed 18.

(b) Sufficient work must be taken in one field to meet the minimum requirements of the State for a major (i.e., 24 units, at least 12 of which are in the upper division).

(c) Sufficient work must be taken in another field to meet the minimum requirements of the State for a minor (i.e., 12 units, at least six of which are in the upper division).

SUGGESTED GROUP MAJORS

Allied Arts
 (See page 75)
 English
 Foreign Language
 Speech

English
 Journalism
 Social Sciences

Education
 Social Service
 Home Economics

Drama
 Education
 English

English
 History
 Economics

Natural Sciences
 Physical Education
 Social Service

Radio
 Business Administration
 Journalism

Recreation
 Conservation and
 Wildlife Management
 Arts and Crafts *or*
 Education

Music
 Speech
 English

Natural Sciences
 Business Administration
 Mathematics

Social Sciences
 Foreign Languages
 Speech-Radio

Radio
 Education
 Social Service

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DIRECTORY OF PERSONNEL

Administered Through the
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* Deceased March 11, 1953.

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Secretary to the Student Executive Manager	Mrs. Arlene Horstman
Business Manager	Frank E. Devery
Secretary to the Business Manager	Mrs. Charlotte Johnson
Accounting Officer	Eugene A. Flocchini
Property Clerk	Thomas Wright
Switchboard Operator	Mrs. Doris Peters
Chief of Maintenance	William Johnson
Clerk	Norman Disher
Librarian	Mrs. Helen Everett
Coordinator of Teacher Education	Ivan C. Milhous
Dean of Summer Sessions	Ivan C. Milhous
Secretary, Summer Sessions and Placement	Mrs. Mary Louise Humphrey
Coordinator of Elementary Education	Harry E. Griffith
Principal of the College Elementary School	Harry E. Griffith
Secretary to the Principal of the College Elementary School	Mrs. Dorothy Davidson
Clerical Assistants	Marietta Anderson, Nona Hogg, Frances Merrill, Betty Reynolds, Mrs. Maryn McPherson, Barbara Clarke, Harry Veach.

DIVISION CHAIRMEN

Division of Education and Psychology	Ivan C. Milhous
Division of Fine and Applied Arts	Don W. Karshner
Division of Health and Physical Education	Joseph Forbes
Division of Language and Literature	Maurice Hicklin
Division of Natural Sciences	Harry D. MacGinitie
Division of Social Science	Hyman Palais
Secretary to Division Chairmen	Mrs. Margery Anderson

FACULTY

1952-53

(Date after name indicates when appointed to faculty)

- ANDERSON, CHARLES, M.A. (1952) ----- Instructor in Business Administration
A.B., University of Southern California; additional study, Long Beach
City College; M.A., University of Southern California.
- ARNOLD, HOMER L., M.A. (1921) ----- Professor of Mathematics and Philosophy
B.S., Indiana State Teachers College (Eastern Division); A.B., University
of Indiana; M.A., University of Chicago; additional graduate study, Univer-
sity of Chicago, Stanford University, University of Michigan.
- ATKINSON, MARJORIE, M.A. (1952) ----- Instructor, Supervising Teacher, CES
B.E., Bemidji State Teachers College; additional graduate study, Univer-
sity of Minnesota, University of California; M.A., San Francisco State College;
additional graduate study, University of Southern California, Oregon State
College.
- BALABANIS, HOMER P., Ph.D. (1923) ----- Dean of Instruction and
Professor of Economics
Ph.B., M.A., University of Chicago; Ph.D., Stanford University.
- BARLOW, LELAND, M.A. (1946) ----- Associate Professor of Music
Mus.B., Oberlin Conservatory; M.A., State University of Iowa; additional
graduate study, University of Southern California.
- BRANT, DANIEL, M.S. (1952) ----- Assistant Professor of Biological Science
B.S., University of Minnesota; M.S., University of Washington; advance
study, University of California.
- BROWN, HONOR, A.B. (1947) ----- Assistant in Education, Supervising Teacher, CES
A.B., Humboldt State College.
- BUCHANAN, KATE, M.A. (1946) ----- Associate Dean of Students (Activities)
Assistant Professor of English
A.B., University of Oregon; M.A., Washington State College; additional
graduate study, Columbia University.
- BULLEN, NEWELL REESE, M.A. (1946) ----- Associate Professor of Art
B.S., Utah State Agricultural College; M.A., Stanford University; addi-
tional graduate study, Academy of Advertising Art, California College of Arts
and Crafts.
- COOPER, CHARLOTTE, A.B. (1951) ----- Assistant in Education,
Supervising Teacher, CES
A.B., Central Washington College; additional graduate study, Humboldt
State College.
- CORBETT, KATHRYN, A.B., R.S.W. (1952) ----- Instructor in Social Science
A.B., University of Redlands; additional graduate study, University of
Chicago, Humboldt State College.
- CORNELIUS, SARAH R., M. A. (1944) ----- Assistant Professor of Education
Ed.B., University of California at Los Angeles; M.A., Columbia Univer-
sity; additional graduate study, University of California, Humboldt State Col-
lege, Stanford University.
- DEVERY, FRANK E., M.A. (1951) ----- Business Manager
B.S., University of Idaho; M.A., Stanford University; additional graduate
study, University of Washington, State College of Washington.
- DE WITT, JOHN W., M.S. (1949) ----- Assistant Professor of Biological Science
B.S., Oregon State College; M.S., Oregon State College; additional grad-
uate study, Stanford University.

- EDMINSTER, ROBERT R., B.A. (1952) ----- Assistant Professor of Economics
B.A., University of Washington; graduate work, University of California.
- FARR, MARY B., M.S. (1952) ----- Assistant Professor of Home Economics
B.S., M.S., Oregon State College; additional graduate work, Oregon State College.
- FORBES, JOSEPH, Ed.D. (1946) ----- Associate Professor of Physical Education
Chairman, Division of Health and Physical Education
A.B., Occidental College; M.S., University of Oregon; graduate work, Occidental College, University of Southern California; Ed.D., University of Oregon.
- FULKERSON, CHARLES, A.B. (1941) ----- Associate Professor of Music
A.B., San Jose State College; graduate study, University of Southern California, Columbia University, Juilliard School of Music, Union Theological Seminary. Piano study under Benning Dexter, John Crown, Alice Ehlers, Abby Whiteside. Associate Conductor and Soloist, Carmel Bach Festival.
- GIRARD, EDWARD, Ed.D. (1952) ----- Associate Dean of Students (Guidance)
Assistant Professor of Education and Psychology
A.B., Northland College, Ashland, Wisconsin; M.S. in Ed., University of Southern California; Ed.D., Stanford University.
- GLOVER, FRED A., Ph.D. (1949) ----- Associate Professor of Biological Science
B.S., Oregon State College; M.S., Pennsylvania State College; Ph.D., Iowa State College.
- GOTT, LOIS K., M.S. (1952) ----- Assistant Professor of Physical Education
B.A., College of Idaho; M.S., University of Oregon; additional graduate study, Mills College, Eastern Oregon College of Education.
- GRIFFITH, HARRY E., Ed.D. (1939) ----- Professor of Education, Principal and
Coordinator of Elementary Education
Ed.B., University of California at Los Angeles; M.A., University of California at Berkeley; additional graduate study, Claremont College, Washington and Lee University, University of Virginia, University of Southern California; Ed.D., Stanford University.
- HAGNE, HAZEL, M.A. (1950) ----- Assistant Professor of Education
A.B., Humboldt State College; additional graduate study, University of California; M.A., Columbia University.
- HICKLIN, MAURICE, M.A. (1925) ----- Professor of English
Chairman, Division of Language and Literature
A.B., University of Missouri; B.J., School of Journalism, University of Missouri; M.A., Stanford University; additional study, Stanford University.
- * HIMSTREET, WILLIAM, M.A. (1949)
Assistant Professor of Business Administration
A.B., San Jose State College; M.A., Stanford University; graduate work, University of Southern California.
- HOUCK, WARREN J., Ph.D. (1952) ----- Assistant Professor of Physical Science
B.S., Cornell University; Ph.D., Cornell University; additional graduate study, Stanford University.
- INGEBRITSON, KASPER I., Ed.D. (1950) ----- Assistant Professor of Education
Coordinator of Secondary Education
B.Ed., State Teachers College, Bemidji, Minnesota; additional graduate study, University of Minnesota; M.A., Claremont Graduate School; Ed.D., Stanford University.
- INGEBRITSON, THELMA L., B.S. (1952)
Assistant in Education, Supervising Teacher, CES
B.S., University of Minnesota; graduate study at University of Minnesota.

* On leave.

- JACKSON, WILLIAM F., M.B.A., C.P.A. (1946)
Associate Professor of Business Administration
B.S., M.B.A., University of California; C.P.A., State of California.
- JOHNSON, ADELLA, M.A. (1931) ----- Associate Professor of Modern Languages
A.B., University of Minnesota; M.A., University of Washington; additional
graduate study, University of Washington, Stanford University, Columbia
University, University of Minnesota, University of California, Mills College,
University of Paris, France.
- JOHNSON, BIRGER L., M.S. (1949) ----- Assistant Professor of Physical Education
A.B., North Dakota State College; M.S., University of Oregon; additional
graduate study, University of Southern California.
- KARSHNER, DON W., Ed.D. (1941) ----- Professor of Speech
Chairman, Division of Fine and Applied Arts
A.B., Washington State College; Ed.D., Stanford University
- KELLENBERGER, ELEANOR, A.B. (1938) ----- Assistant in Education
Supervising Teacher, CES
A.B., Humboldt State College; additional graduate study, University of
California at Los Angeles.
- LANPHERE, WILLIAM, Ph.D. (1936) ----- Professor of Biological Science
B.S., M.S., Ph.D., University of Washington.
- McDERMID, CHARLES G., A.B. (1950) ----- Instructor, Supervising Teacher, CES
B.S., University of Santa Clara; graduate study, Humboldt State College.
- MacGINTIE, HARRY D., Ph.D. (1927) ----- Professor of Physical Science
Chairman, Division of Natural Science
A.B., Fresno State College; additional graduate work, Stanford Univer-
sity; Ph.D., University of California.
- McINTYRE, JUSTIN N., M.A. (1951) ----- Instructor in English and Journalism
A.B., Columbia University; M.A., University of Oregon.
- McKITTRICK, MYRTLE M., A.B., (1938) ----- Registrar
A.B., Willamette University; postgraduate study, University of Wash-
ington.
- MacPHERSON, HELEN, A.B. (1948) ----- Assistant in Education
Supervising Teacher, CES
A.B., George Peabody College.
- MARX, LAWRENCE N., Ph.D. (1952) ----- Assistant Professor of Psychology
Coordinator of Audio-visual Aids
B.S., Kansas State College; M.S., Kansas State College; additional gradu-
ate study, Columbia University; Ph.D., Ohio State University.
- MEARNS, JAMES T., M.Mus. (1947) ----- Assistant Professor of Music
B.Mus., Oberlin Conservatory of Music; M.Mus., University of Michigan;
postgraduate study in musicology, University of Michigan; master classes in
organ with Joseph Bonnet.
- MILHOUS, IVAN C., Ph.D. (1946) ----- Professor of Education
Coordinator of Summer Sessions, Coordinator of Extension
Chairman, Division of Education and Psychology
A.B., Penn College; additional study, Iowa State Teachers College; M.A.,
Haverford College; additional graduate study, Iliff School of Theology, State
University of Montana; Ph.D., State University of Iowa.
- PALAIS, HYMAN, Ph.D. (1946) ----- Professor of History
Chairman, Division of Social Science
A.B., M.A., Ph.D., University of California at Los Angeles.

- PARKER, HAROLD K., Ed.D. (1952) ----- Dean of Students
Assistant Professor of Education and Psychology
A.B., Grove City College, Pennsylvania; Ed.M., University of Pittsburg;
Ed.D., Stanford University.
- PAULEY, JOHN F., Ph.D. (1952) ----- Assistant Professor of Speech and Drama
A.B., Trinity College; M.F.A., Ph.D., State University of Iowa.
- PEITHMAN, ROSCOE, M.S. (1946) ----- Associate Professor of Physical Science
and Industrial Education
B.Ed., Southern Illinois University; M.S., University of Illinois; additional
graduate study, Oregon State College.
- PLATT, IMOGENE B., M.A. (1926) ----- Assistant Professor
of Business Administration
A.B., University of Washington; additional graduate study, Stanford University;
M.A., University of Washington.
- *ROSCOE, CHARLES M., M.S. (1946) ----- Assistant Professor of Physical Science
B.S., University of Oklahoma; M.S., Stanford University.
- RAMSEY, FLO A., M.A. (1952) ----- Assistant Professor of Home Economics
B.S., Our Lady of Lake College; M.A., Columbia University; additional
graduate work, University of California at Los Angeles.
- SARBOE, PHILIP J., B.S. (1951) ----- Lecturer in Physical Education
Director of Athletics
B.S., and additional graduate study, Washington State College.
- SCHULER, MELVIN A., M.F.A. (1947) ----- Assistant Professor of Art
B.A., M.F.A., California College of Arts and Crafts.
- SMITH, ARTHUR M., Ph.D., (1948) ----- Associate Professor of Chemistry
A.B., San Francisco State College; additional graduate study, New York
University; M.A., Ph.D., Stanford University.
- SIEMENS, CORNELIUS H., Ph.D. (1950) ----- President
A.B., M.A., Ph.D., University of California.
- SPAUD, STANLEY S., Ph.D. (1949) ----- Associate Professor of History
B.A., University of Idaho; M.A., University of Idaho; additional graduate
study, University of Oregon, University of Michigan, University of Wisconsin;
Ph.D., University of Oregon.
- STEGEMAN, ARTHUR L., M.A. (1951) ----- Assistant Professor
of Industrial Education
B.S., Nebraska State Teachers College; additional study, University of
Idaho; M.A., Colorado State College of Education; additional work, Colorado
State College; State College of Washington, University of Missouri.
- STRAND, CARL B., Ph.D. (1951) ----- Assistant Professor of Business Administration
Coordinator of Terminal Education
B.S., Iowa State Teachers College; M.A., Ph.D., State University of Iowa.
- STURDIVANT, ELWOOD A., B.S. (1950) ----- Instructor in Physical Education
Assistant Coach
B.S., Washington State College; additional work, Washington State
College.
- TELONICHER, FRED, A.B. (1927) ----- Associate Professor of Biological Science
A.B., Fresno State College; additional work, Stanford University, and
Hopkins Marine Station, Pacific Grove.
- TELONICHER, MARGARET, A.B. (1947) ----- Assistant in Education
Supervising Teacher, CES
A.B., Humboldt State College.

* On leave.

- TURNER, LAWRENCE E., Ph.D. (1951) ----- Executive Dean
Professor of Education
A.B., McPherson College; additional study, University of Kansas, George Washington University; College of the Pacific; M.A., Ph.D., University of California.
- VAN DUZER, JOHN, M.A. (1941) ----- Associate Professor of Speech and Drama
A.B., Humboldt State College; M.A., University of Southern California; additional graduate study, Stanford University, University of California at Los Angeles.
- WHITE, REGINALD LOUIS, Ed.D. (1946) ----- Professor of English
B.A., First Class Honors in English, University of London, England; M.A., Northwestern University; Ed.D., Stanford University.
- WOODCOCK, CHARLES, A.B. (1951) ----- Assistant in Education
Supervising Teacher, CES
A.B., Humboldt State College.

PART-TIME INSTRUCTORS

- BARLOW, KATHRYN, M.A. (1946) ----- Assistant Professor of English
A.B., Oberlin College; additional graduate study, University of Bordeaux; M.A., Oberlin College; additional graduate study, University of Wisconsin, University of Mexico, University of New Mexico.
- CAMERON, FRANK J., M.S. (1951) ----- Assistant Professor of Education
B.S., University of Oregon; additional graduate study, San Francisco State College; M.S., University of Southern California.
- FULKERSON, JEAN, A.B. (1943) ----- Assistant Instructor
A.B., San Jose State College; additional graduate work, Christiansen Choir College, Stanford University, Juilliard School of Music, Union Theological Seminary.
- GRAY, WALTER L., CAPTAIN (1953) ----- Assistant in Wildlife Management
and Fisheries
California Department of Fish and Game.
- JENKINS, HORACE H., M.S. (1915) ----- Professor of Industrial Education
B.S., M.S., Oregon State College; graduate, Central State Teachers College, Oklahoma, four-year classical course and three-year art and shop course; additional graduate study, Oswego State Normal School, University of California, University of Chicago, Columbia University, Stanford University.
- *LAHR, LESLIE, CAPTAIN (1951) ----- Lecturer in Law Enforcement
Bureau of Patrol, California Department of Fish and Game.
- THOMPSON, ESTHER G. (1946) ----- Lecturer in Violin
Certificate in Theory and Violin (four years), Yale University School of Music; studied violin under Richard Schliewen, Reginald Bland, Russell Keeney, and Hugo Kortschak, studied one year in Italy with Lena Fagioli; studied string ensemble with Emmeran Stoeber.

*Resigned, January, 1953.

COLLEGE LIBRARY STAFF

(Date after name indicates when appointed to library staff)

- EVERETT, HELEN A., M.A. (1939) ----- Librarian
A.B., University of Oregon; Certificate of Librarianship and M.A., University of California; graduate study, Stanford University.
- GALLOWAY, RICHARD DEAN, M.S. in L.S. (1947) ----- Senior Librarian
A.B., Humboldt State College; M.S. in L.S., University of Southern California.
- MALLOY, MIRIAM C., A.B. (1950) ----- Senior Librarian
A.B. and Certificate in Librarianship, University of California; additional graduate study, University of California.
- BLOOM, CHARLES, M.A. (1952) ----- Junior Librarian
B.L.S., A.B., M.A., graduate study, University of California.
- BUTLER, ELEZE, A.B. (1952) ----- Junior Librarian
A.B. and Certificate in Librarianship, University of California.
- HAVERSTOCK, WILLIAM, M.A. (1952) ----- Junior Librarian
B.A., Macalester College; M.A., Stanford University; B.L.S., University of California.
- Clerical Assistants: Miss Ann Sherman, Mrs. Laura Peithman, Mrs. Lorna Hrinisin.

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(The president is ex officio a member of all committees)

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- SCHOLARSHIPS AND AWARDS: Mrs. McKittrick, chairman; Mr. Fulkerson, Miss Johnson, Mr. Sarboe, Dr. Spaid, Dr. White.

INDEX

- Academic calendar, 8-9
- Academic honors (see scholastic honors)
- Academic regulations, 29-33
- Accounting, 150-151, 159
- Activities, 18-19
- Administration credentials, 60, 66
- Administrative officers, 170
- Admission to the college, 24-26
- Advanced standing (see admission to the college)
- Advisers, 20
- Agriculture, 54
- Allied arts, 75
- Alumni Association, 18-19
- Anatomy, 137
- Art, 76-81
- Associated Students, 18
- Athletics, 19
- Auditors, 31, 35
- Auxiliary college services, 22-23
- Bachelor of arts degree, 51-53
- Bachelor of science degree, 51-53
- Biology, 134-135
- Buildings, 12-13
- Business administration, 149-153
- Business education, 149
- Calendar, 8-9
- Class enrollment, 31
- Community service, 23
- "Coop," 12
- Counseling, 20
- Course numbering, 49
- Credentials, 60-68
 - Administration and supervision, 66
 - General elementary, 60, 63-64
 - General requirements, 61
 - General secondary, 65
 - General statement, 60-61
 - Junior high school, 63-64
 - Kindergarten-primary, 63-64
 - Residence requirement, 67
 - Special secondary, 64
 - Art, 76
 - Business education, 151
 - Home economics, 82
 - Music, 91
 - Physical education, 106
 - Speech correction, 99
- Curriculums, 46-53
 - Degree, 47-48
 - Graduate, 49-50
 - Two-year, 48, 54-59
- Dairying, 54
- Deferment (see selective service)
- Degree curriculums classified, 47
 - Art, 76
 - Bachelor of arts, 51
 - Biological science, 129
 - Botany, 129
 - Business administration, 151
 - Business education, 151
 - Economics, 147
 - Education, 63-64
 - English, 117-119
 - Fisheries, 131-132
 - General requirements, 49
 - Group major, 167-168
 - History, 147-148
 - Home economics, 82
 - Master of arts, 49
 - Music, 91
 - Physical education, 105
 - Premedical science, 129
 - Secretarial science, 150
 - Degree curriculums classified—continued
 - Social science, 147
 - Speech, 97
 - Speech and dramatics, 97
 - Speech-radio, 97
 - Wildlife management, 131
 - Zoology, 129
- Degrees (see degree curriculums)
- Directory of personnel, 169
- Disqualification, 32-33
- Division, 46
 - Education and psychology, 60
 - Fine and applied arts, 75
 - Health and physical education, 105
 - Language and literature, 117
 - Natural sciences, 126
 - Social science, 145
- Division chairmen, 170
- Dormitory, 10, 16-17
- Dramatics (see speech and dramatics)
- Dramatics activities, 19
- Dramatics workshop, 101
- Economics, 146-148, 156
- Education, 60-74
- Electronics, 141
- Elementary credential (see credentials)
- Employment service (see placement service, student employment service)
- Engineering, 142
- English, 117-122
- Enrollment in classes (see class enrollment)
- In the college (see registration)
- Expenses (see living accommodations, fees)
- Extension courses, 22
- Extension credit, 32
- Faculty committees, 176
- Faculty consultant service, 23
- Faculty personnel, 171
- Fees: occasional, required, student body, summer sessions, 34
- Fine and applied arts, 75
- Fisheries, 131-133, 136
- Foreign languages (see modern languages)
- Forestry, 56, 136-137
- French, 124
- General secondary credential (see credentials)
- German, 125
- Grade points, 30
- Grades, 29
- Graduation honors, 36
- Graduation requirements (see bachelor of arts, bachelor of science)
- Group major, 167-168
- Health and hygiene, 114-116
- Health examination, 20
- Health service, 12, 20
- History, 147-148, 152-155
- Home economics, 82-86
- Honors (see scholastic honors)
- Hygiene (see health and hygiene)
- Industrial education, 86-90
- Intramural sports, 19
- Journalism, 117-120, 122-123
- Junior high school credential (see credentials)
- Junior high school majors
 - Art, 78
 - Biology, 132
 - Economics, 152

- Junior high school majors—continued
 - English, 120
 - Health and hygiene, 115
 - History, 152
 - Home economics, 84
 - Industrial education, 87
 - Mathematics, 143
 - Music, 93
 - Physical education, 109
 - Social Science, 152
 - Speech and dramatics, 99-100
- Kindergarten-primary credential (see credentials)
- Languages (see modern languages)
- Language and literature, 117
- Late afternoon and evening classes, 22
- Library, 13
- Library staff, 176
- Living accommodations, 16
- Loan funds, 44-45
- Location of the college, 12
- Lower division courses, 49, 54
 - Occupational curriculums, 54-58
- Lumbering (see forestry)
- "Lumberjack," 18
- Majors, defined and listed, 52-53
- Marking system, 29
- Mathematics, 143-144
- Men's athletics, 19
- Military service, credit for, 26
- Minors, defined and listed, 52-53
- Modern languages, 124-125
- Music, 91-97
- Musical organizations, 19, 96
- Natural sciences, 126
- Nelson Hall, 12, 16-17
- Normal program, 30
- Note to prospective student, 10-11
- Number of courses (see explanation of course numbers)
- Nursing (see prenursing)
- Nutrition, 85
- Occupational curriculums, 54-58
- Personnel (see Directory of Personnel)
- Photography, 57, 79, 141
- Physical education, 105-113
- Physical education credential (see credentials)
- Physical examinations (see health examination)
- Physics, 140-141
- Physiology, 137
- Placement service, 22
- Political science, 164-165
- Practice teaching (see student teaching)
- Preprofessional courses (see two-year curriculums)
- Premedical curriculum, 59, 129-130
- Prenursing program, 114
- Probation, 32-33
- Program changes of (see normal program)
- Psychology, 73-74
- Publications, 18
- Radio, 97-104
- Recreation, 18-19
- Recreational leadership, 57
- Redwood Hall, 12, 16-17
- Refunds, 35
- Registration in classes (see class enrollment)
 - In college, 28
- Regulations (see academic regulations)
- Remedial program, 27-28
- Residence requirement, 51
- Schedule of classes, 49
- Scholarship index, 30
 - For credential candidates, 62
 - For degree candidates, 49, 53
 - For students transferring to Humboldt, 25 (see also probation and disqualification)
- Scholarships and monetary awards, 36-44
- Scholastic honors, 36
- Science (see natural science)
- Secondary credential (see general secondary credential)
- Secretarial science, 150-151, 158-163
- Selective service, 28
- "Sempervirens," 18
- Social life, 19
- Social science, 145
- Social service curriculum, 147-148
- Societies, 18
- Sociology, 165
- Spanish, 125
- Special secondary credential, 64
 - Art, 76-77
 - Business education, 150-151
 - Home economics, 82-83
 - Music, 91-93
 - Physical education, 106-108
 - Speech correction, 99
- Speech and dramatics, 97-104
 - Speech—English, 120
 - Speech—Radio, 97-98
 - Speech clinic, 100
 - Speech correction, 99
- Sports (see athletics and recreation)
- State Board of Education, 169
- Student activities (see club and societies, athletics)
- Student body fees, 35
- Student government, 18
- Student life, 16-21
- Student employment service, 23
- Student organizations (see clubs and societies)
- Student programs (see normal program)
- Student teaching, 71-72
- Summary of expenses, 35
- Summer session, 22
- Supervision credential 60, 66-67
- Table of contents, 5-6
- Testing program, 20
- Transfer to other institutions, 26-27
- Two-year curriculums, 54
- Units of credit, 29
- Upper division courses, 49
- U. S. History, 52, 61, 153
- Veterans, 21
- Vocational rehabilitation, 43
- Wildlife management, 131, 137-138
- Withdrawal from college, 31-32
 - From courses, 31
- Women's Athletic Association, 17
- Women's athletics (see intramural sports)
- Year course, 49
- Zoology, 129-130, 138-139

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